POTENTIAL PLACES OF REFUGE: PART ONE – INTRODUCTION

Purpose and Scope

This Potential Places of Refuge (PPOR) section supplements information found elsewhere in the Southeast Subarea Contingency Plan for Oil and Hazardous Substances Spills and Releases, commonly referred to as the Southeast Subarea Contingency Plan (SCP). Information about sensitive areas associated with PPOR may be found in the Sensitive Areas - Section D of the SCP. Information about response strategies to protect sensitive areas and areas of public concern associated with PPOR may be found in the Geographic Response Strategies – Section G of the SCP.

A "place of refuge" is defined as a location where a vessel needing assistance can be temporarily moved to, and where actions can then be taken to stabilize the vessel, protect human life, reduce a hazard to navigation, and/or protect sensitive natural resources and other uses of the area (e.g., subsistence collection of mussels, commercial fishing, recreational boating). A place of refuge may include constructed harbors, ports, natural embayments, potential grounding sites, or offshore waters. This section identifies potential docking, anchoring, and mooring locations that may be selected as Places of Refuge in the Southeast Subarea. Actual designation of a Place of Refuge will always be an incident-specific decision made by the U.S. Coast Guard Captain of the Port for Southeast Alaska.

The Southeast Subarea has approximately 11,000 miles of environmentally sensitive coastline. In addition to sensitive shoreline habitats such as marshes, sheltered tidal flats, and exposed tidal flats, Southeast Alaska supports a number of sensitive biological resources including birds, fish and shellfish, and marine mammals. Additional information about identification of sensitive areas and resources may be found in Section D of the SCP. Additional information about protection of sensitive areas may be found in Section G of the SCP.

The Southeast Subarea lands are managed under a variety of land use management plans including;

- Northern Southeast Area Plan, October, 2002
- Revised Land Resource Management Plan for the Tongass National Forest, 1997
- City and Borough of Juneau Coastal Management Plan, 2008.
- City of Craig Coastal Management Plan, 2007.
- Skagway Municipality Coastal Management Plan, 2007
- City of Hoonah Coastal Management Plan, 2007
- City of Thorne Bay Coastal Management Plan, 2007
- City and Borough of Yakutat Coastal Management Plan, 2008.
- City of Pelican Coastal Management Plan, 2007
- Haines Borough Coastal Management Plan, 2007
- City and Borough of Sitka Coastal Management Plan, April 8, 2007
- Ketchikan Gateway Borough, Coastal Management Plan, 2008.

Yakataga Area Plan (April 1995)
Juneau State Land Plan (December 1993)
Central/Southern Southeast Area Plan (November 2000
Prince of Wales Area Plan (October 1998, Amended May 2008)

- General Management Plan, Glacier Bay National Park, 1984

The Southeast Subarea is also widely used for marine commerce. Log transport ships, fuel barges, freighters, container ships, ferries, and cruise ships make routine stops at Southeast ports. Also, commercial fishing boats, sport fishing charter boats, and privately-owned vessels regularly use local harbors and docks.

There is no perfect docking, mooring or anchoring, site for all vessels in all situations. A vessels length and draft are major determining factors when consiering a site for refuge. Deep draft vessels, such as oil tankers and cruiseships, cannot be taken to certain locations. Some ports may have shallow approaches or small bays, and deep draft ships cannot enter these locations. However, shallower draft vessels, such as fishing vessels and charter vessels, may be able to utilize these ports. The multitude of possible sites of refuge for these shallow draft vessels in Southeast Alaska precluded listing them all. Therefore, this class of vessel has not been addressed in these documents. For the purposes of this section, vessels have been divided into two categories: deep draft and light draft.

> **Deep Draft Vessels** are vessels with lengths up to and greater than 1000 feet and require anchor swinging room of 0.5 mile. Typically they have drafts of 20-40 feet. Cruiseships and container ships and tank vessels are the predominant deep draft vessels operating in Southeast Alaska.
>
> **Light Draft Vessels** are vessels up to 450 feet in length and require anchor swing room of ¼ mile. They have drafts to 20 feet. Freighters, catcher processors, and ferries are the most common light draft vessels operating in Southeast Alaska.

The information in this section may be used for a vessel of any size that has suffered an incident that creates a need for a temporary place of safe refuge, but it is focused on deep draft and light draft size vessels.

How the Document Was Developed

This section was developed in 2009 by a Work Group of interested and knowledgeable stakeholders in keeping with the Alaska Regional Response Team's "Guidelines for Places of Refuge Decision-Making," (Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases, Annex O). The Work Group arrived at a consensus on the potential places of refuge and submitted this document to the Subarea Committee for approval and inclusion in the Southeast Subarea Contingency Plan. The Work Group participants represented the following organizations:

Alaska Department of Environmental Conservation
Alaska Department of Natural Resources
Alaska Department of Fish and Game
Southeast Alaska Pilots' Association
U.S. Coast Guard, Sector Juneau
U.S. Department of the Interior – Office of Environmental Policy and Compliance, Fish and Wildlife Service, and National Park Service
U.S. Environmental Protection Agency
City and Borough of Juneau
City and Borough of Sitka
Municipality of Skagway
Ketchikan Gateway Borough
Central Council of the Tlingit Haida Indian Tribes of Alaska

The first step of the PPOR process was to identify candidate sites (anchorages, moorings, docks/piers,) within the Southeast Subarea. The Workgroup began by researching available information to determine major risk factors in the Southeast Subarea. Maps were developed, depicting the following risk and logistical information:

Locations of bulk fuel facilities and pipelines (Figure H-1);
Location of Noncrude carrier routes (Figure H-2);
Locations of cruise ship and ferry traffic (Figure H-3);

Locations of hatcheries and remote release sites (Figure H-4);
Locations of acquatic farms and mariculture sites (Figure H-5);
Locations of communities with spill response agreements,spill response hubs and equipment depots (Figure H-6);
Locations of geographic response strategies (Figure H-7);
Locations of major airports (Figure H-8);
Locations of marine casualty events (Figure H-9).

Figure H-10 is a composite map of all risk factors combined.

The second step led to the identification of 88 PPOR sites within the Southeast Subarea. A site assessment matrix (Table H-2) and key (Table H-1) were developed. The matrix consists of identified sites in each row with information about risk factors and site selection criteria in the columns. The information presented for each site includes:

PPOR identification;
Response Zone #;
Type of Berth;
Location Name;
Body of Water;
Latitude;
Longitude;
Maximum Vessel Depth
Anchoring Swing Room or Dock Face in feet;
Depth at dock face:
Depth at anchorage;
Bottom Type;
Exposure to;
Conflicting uses;
Ability to boom;
GRS in the area;
Sensitive Resources;
Distance to population centers; and
Distance to alternate PPOR.

The PPOR identification method begins with either a "D" or "L." which indicates the appropriate size vessel for the site. "D" will coorespond to deep draft vessels, "L" is light draft vessels. Following the letter is a number which indicates the response zone in which the site is located. This is then followed by a number which is a unique site identifier with no importance attached to the magnitude of the number.

The site assessment matrix contains potentially suitable emergency anchorage, docking and moorage locations based on operational factors such as water depth, swing room, exposure/protection, and navigational approach. Sites are grouped by the individual response zones and then by the maximum vessel size category suitable for the site.

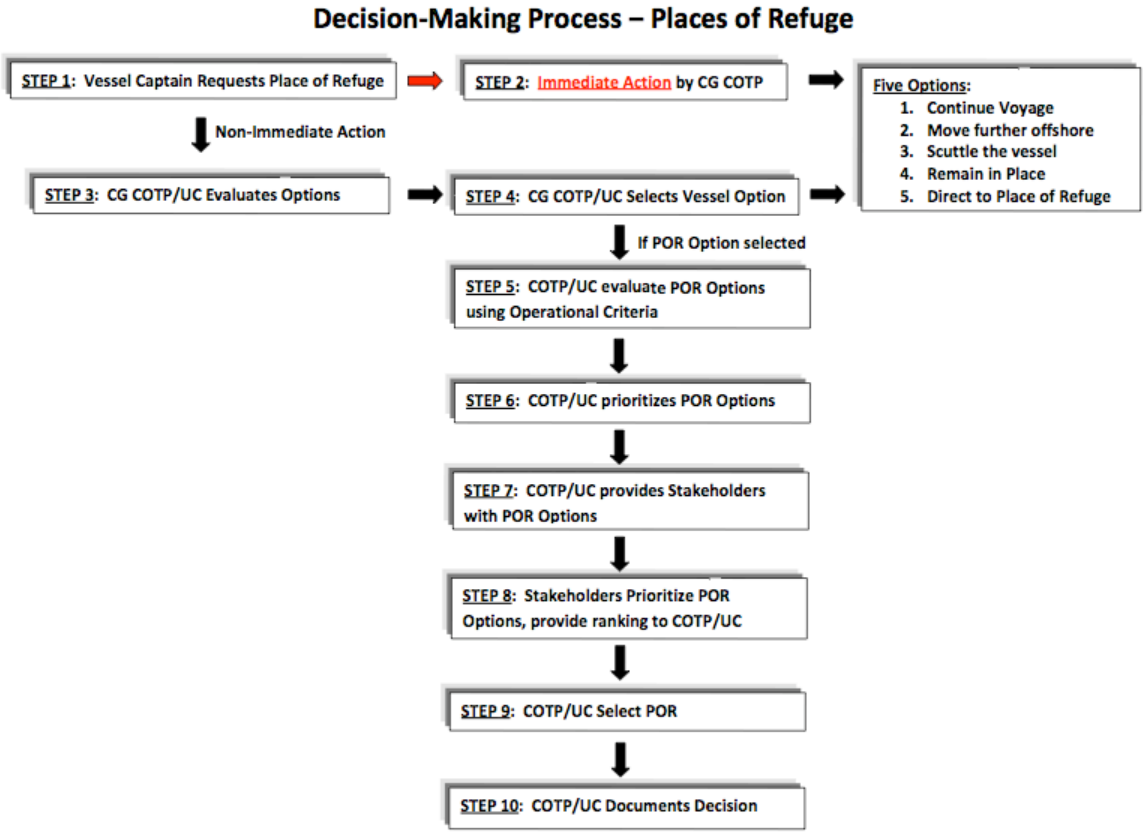
Step 3 was to identify specific factors that should be considered as part of the site assessment process. These factors include:

- Distance from population and logistics centers;
- Proximity to environmentally sensitive areas, wildlife resources, threatened or endangered species or habitats, and/or historic properties;
- Uses, such as fisheries, mariculture sites, tourism and recreational use, subsistence use, and the location of public or private facilities;

- Response factors such as booming feasibility and the proximity to existing Geographic Response Strategy (GRS) sites; and
- The distance from the closest alternative PPOR.

How to Use the Potential Places of Refuge Section

The "Guidelines for Places of Refuge Decision-Making" (Annex O of the Unified Plan) will be used for places of refuge decision-making in the Southeast Subarea. As outlined in the guidelines, when the U.S. Coast Guard Captain of the Port (COTP) receives a request from a vessel master or his/her representative to move a vessel to a place of refuge--or in the event there are no individuals on board the vessel authorized to make the request, or the vessel has been abandoned and the COTP needs to consider moving the vessel to a place of refuge--the COTP will initiate the decision-making process in Appendix 1 of Annex O. As outlined in Steps 2 and 3 in Appendix 1, if the COTP/ Unified Command determines that places of refuge should be considered for an incident-specific response, the information in the Southeast PPOR document may be used to provide background information to help expedite the incident-specific place of refuge decision. The steps of the decision-making process are displayed as follows:



The information provided in this document should help decision-making by providing site-specific information to the COTP/Unified Command.

Part Two of this document contains site-specific information for some of the PPOR in the Southeast Subarea. An index map (Figure H-11) at the beginning of this section shows the location of the PPOR maps. Each PPOR map consists of two parts: 1) a map page showing a locator map, picture, and

detailed nautical charts; and 2) a table page providing site information and local site conditions. All geographic data was collected using Mercator Projection, North American Datum 1983.

Who to Contact for Input

Comments and recommendations on these PPOR are welcomed. Please send your comments to either of the following agencies:

Alaska Department of Environmental Conservation
Prevention and Emergency Response Program
555 Cordova Street
Anchorage, AK 99501

United States Coast Guard
Captain of the Port, Southeast Alaska
2760 Sherwood Lane Suite 2A
Juneau, AK 99801-8545

POTENTIAL PLACES OF REFUGE: PART TWO – PPOR MAPS

Index of PPOR Maps

The Workgroup developed 9 PPOR Maps within the Southeast Subarea to correspond with the response zones established by oil spill responders in the area. These maps aid in the site assessment process. These maps are larger in scale, showing a small portion of the Subarea in more detail than the maps in Part One. Figure H-11 provides an overview of the Subarea, identifying the location of each PPOR Map. Each PPOR Map has been assigned an identifying number, which has no relevance other than as a map identifier.

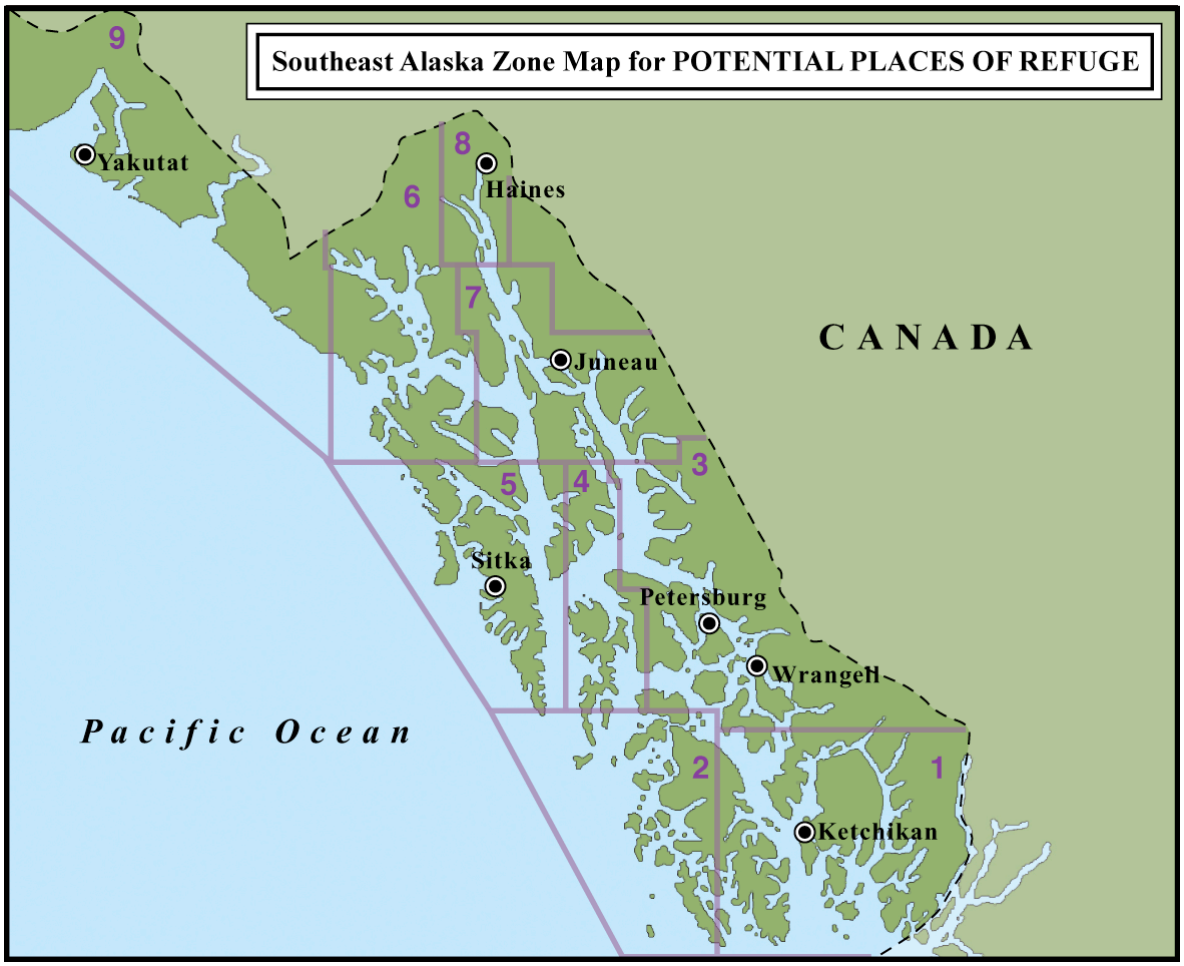


Figure H-11. Southeast Alaska Zone Map for Potential Places of Refuge.

PPOR Maps

Each PPOR Map consists of two parts: 1) a graphic showing a locator map, pictures, and detailed nautical charts showing the location of anchorages, docks, and moorings and other information critical to the selection of a place of refuge; and 2) a series of tables providing site information regarding local site conditions, environmental sensitivities and other considerations.

POTENTIAL PLACES OF REFUGE: PART THREE – REFERENCES

Alaska Regional Response Team. October 2004. Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases, Annex O, Guidelines for Places of Refuge Decision-Making.

Dept of Commerce - National Oceanic & Atmospheric Administration (NOAA), National Ocean Survey can provide detailed hydrographic charts of PPOR locations upon request. Contact Dave Neander, Dave.Neander@noaa.gov, (206) 526-6949, NOAA/ORR, 7600 Sand Point Way, NE, Seattle, WA 98115.

International Maritime Organization (IMO). July 17, 2003. Draft Assembly Resolutions Finalized by Nav. 49, Annex 1 Guidelines On Places Of Refuge For Ships In Need of Assistance.

Pacific States/British Columbia Task Force. December 2004. Guidelines for Places of Refuge

U.S. Coast Guard, Marine Safety Office Southeast, 2007. Southeast Alaska Marine Firefighting Contingency Plan.

Useful Websites

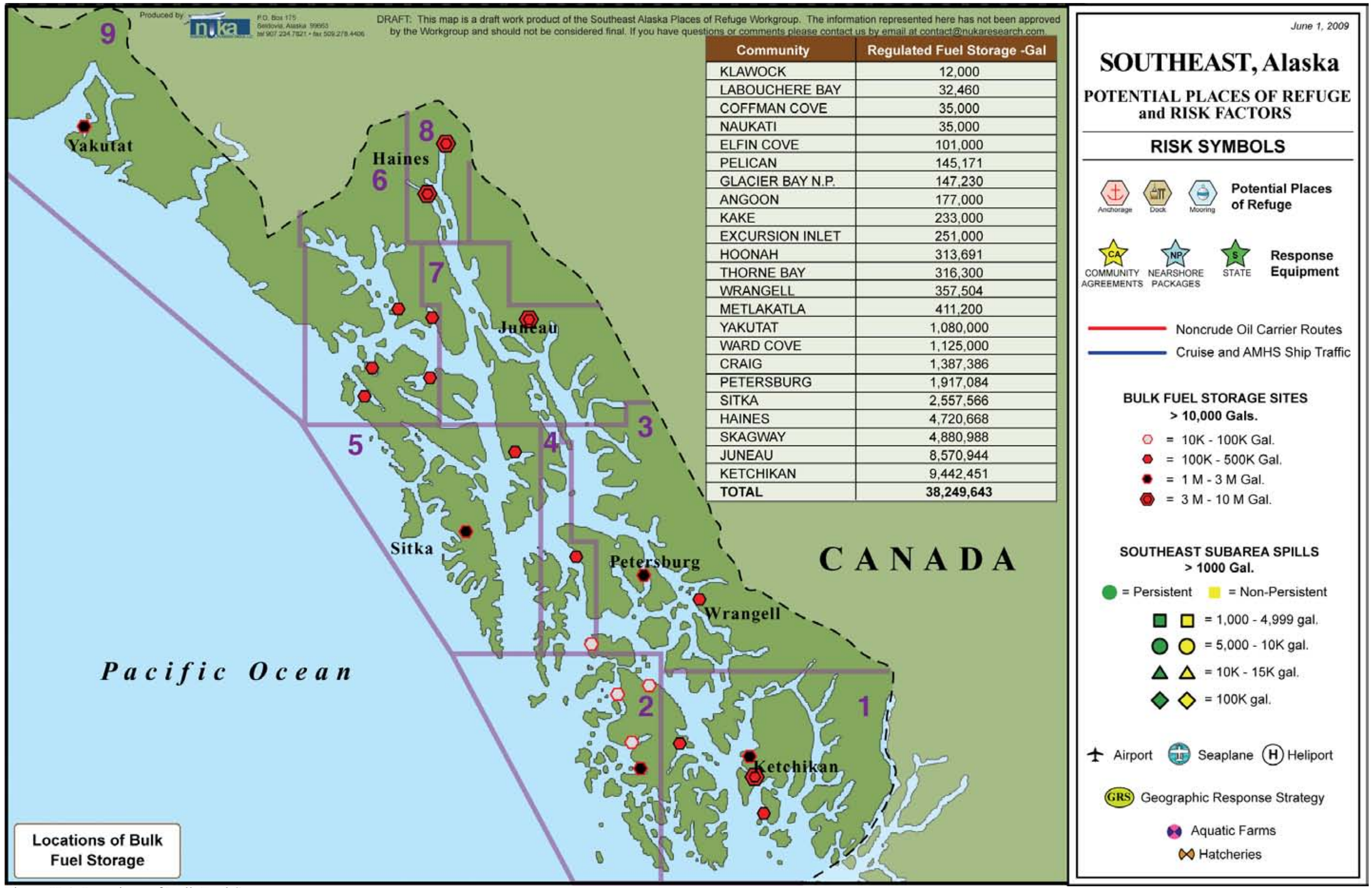
Alaska Dept. of Environmental Conservation, Southeast GRS Information
http://www.dec.state.ak.us/spar/perp/grs/se/home.htm

Alaska Dept. of Natural Resources. Southeast Public Access Atlas.
http://www.dnr.state.ak.us/mlw/planning/easmtatlas/

Alaska Dept. of Natural Resources, Southeast Subarea maps including, general maps, land use and management maps, biologically sensitive area maps, most environmentally sensitive area maps, environmentally sensitive index maps, and geographic response strategies.
http://www.asgdc.state.ak.us/maps/cplans/subareas.html#southeast

Alaska Regional Response Team, Southeast Subarea Contingency Plan,
http://www.akrrt.org/SEAKplan/SEAKtoc.shtml

U.S Bureau of Land Management. Alaska Land Information System.
http://www.ak.blm.gov/alis/



Community	Regulated Fuel Storage -Gal
KLAWOCK	12,000
LABOUCHERE BAY	32,460
COFFMAN COVE	35,000
NAUKATI	35,000
ELFIN COVE	101,000
PELICAN	145,171
GLACIER BAY N.P.	147,230
ANGOON	177,000
KAKE	233,000
EXCURSION INLET	251,000
HOONAH	313,691
THORNE BAY	316,300
WRANGELL	357,504
METLAKATLA	411,200
YAKUTAT	1,080,000
WARD COVE	1,125,000
CRAIG	1,387,386
PETERSBURG	1,917,084
SITKA	2,557,566
HAINES	4,720,668
SKAGWAY	4,880,988
JUNEAU	8,570,944
KETCHIKAN	9,442,451
TOTAL	**38,249,643**

Figure H-1. Locations of Bulk Fuel Storage.

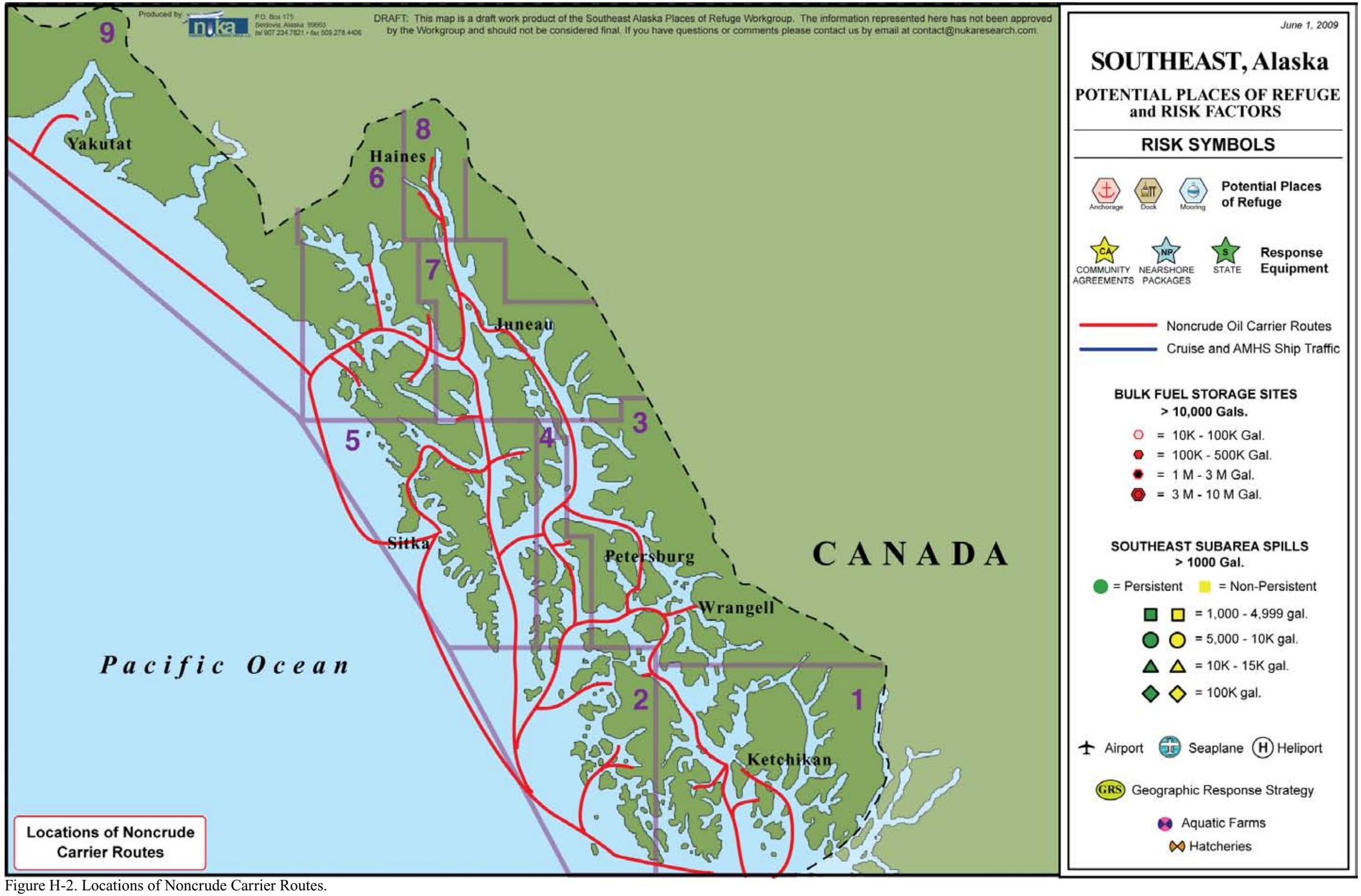


Figure H-2. Locations of Noncrude Carrier Routes.

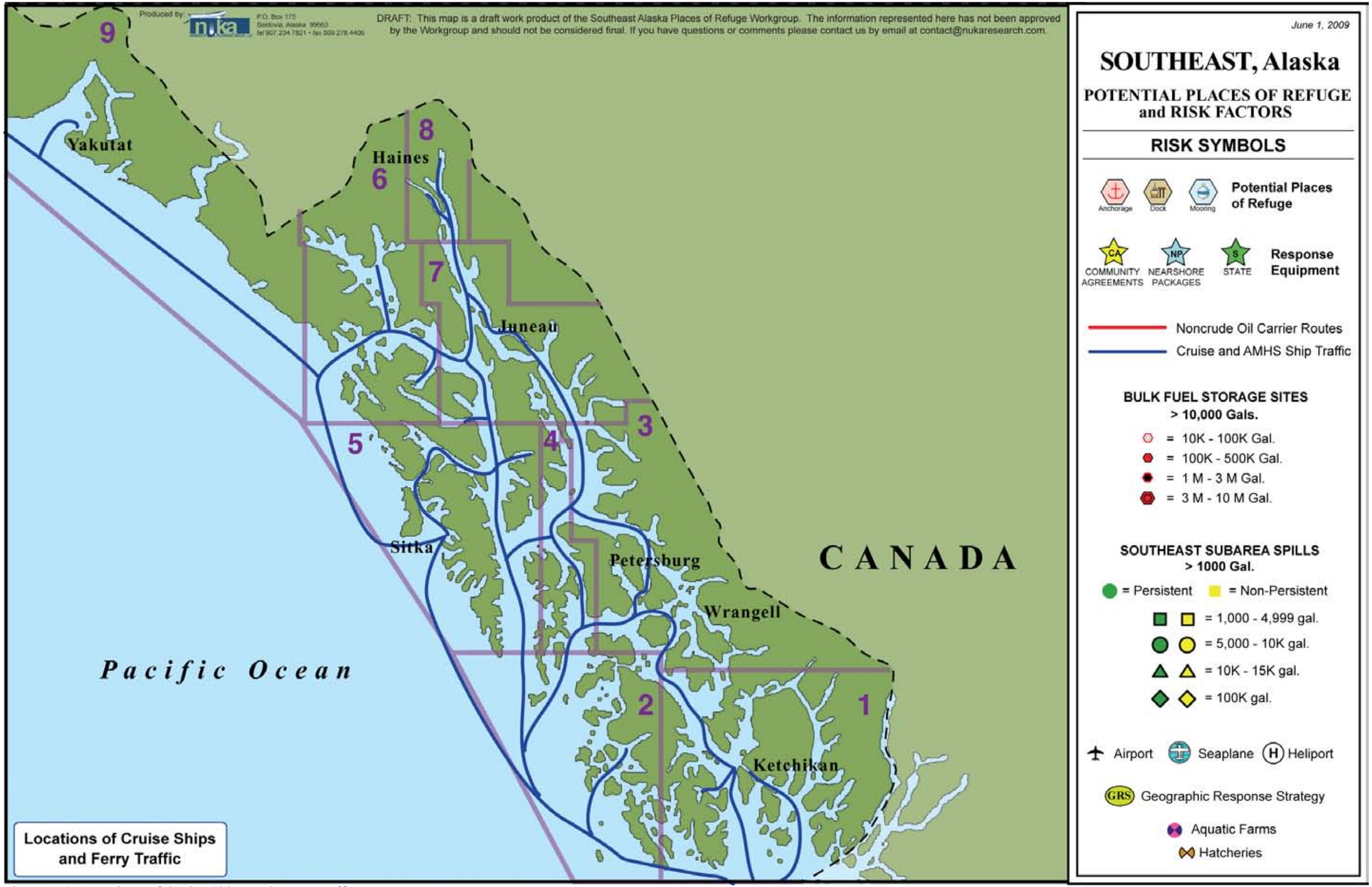


Figure H-3. Locations of Cruise Ships and Ferry Traffic.

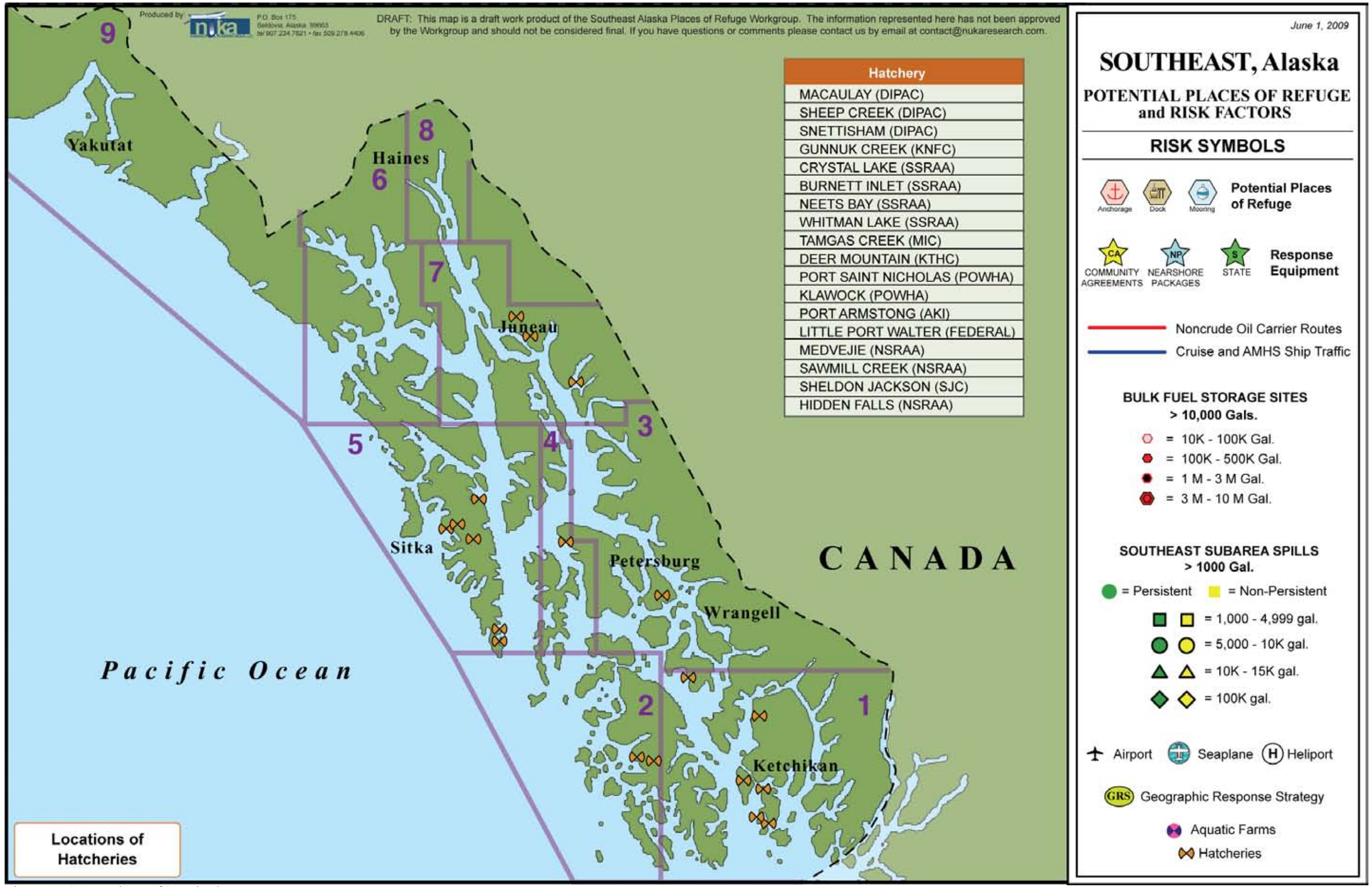


Figure H-4. Locations of Hatcheries.

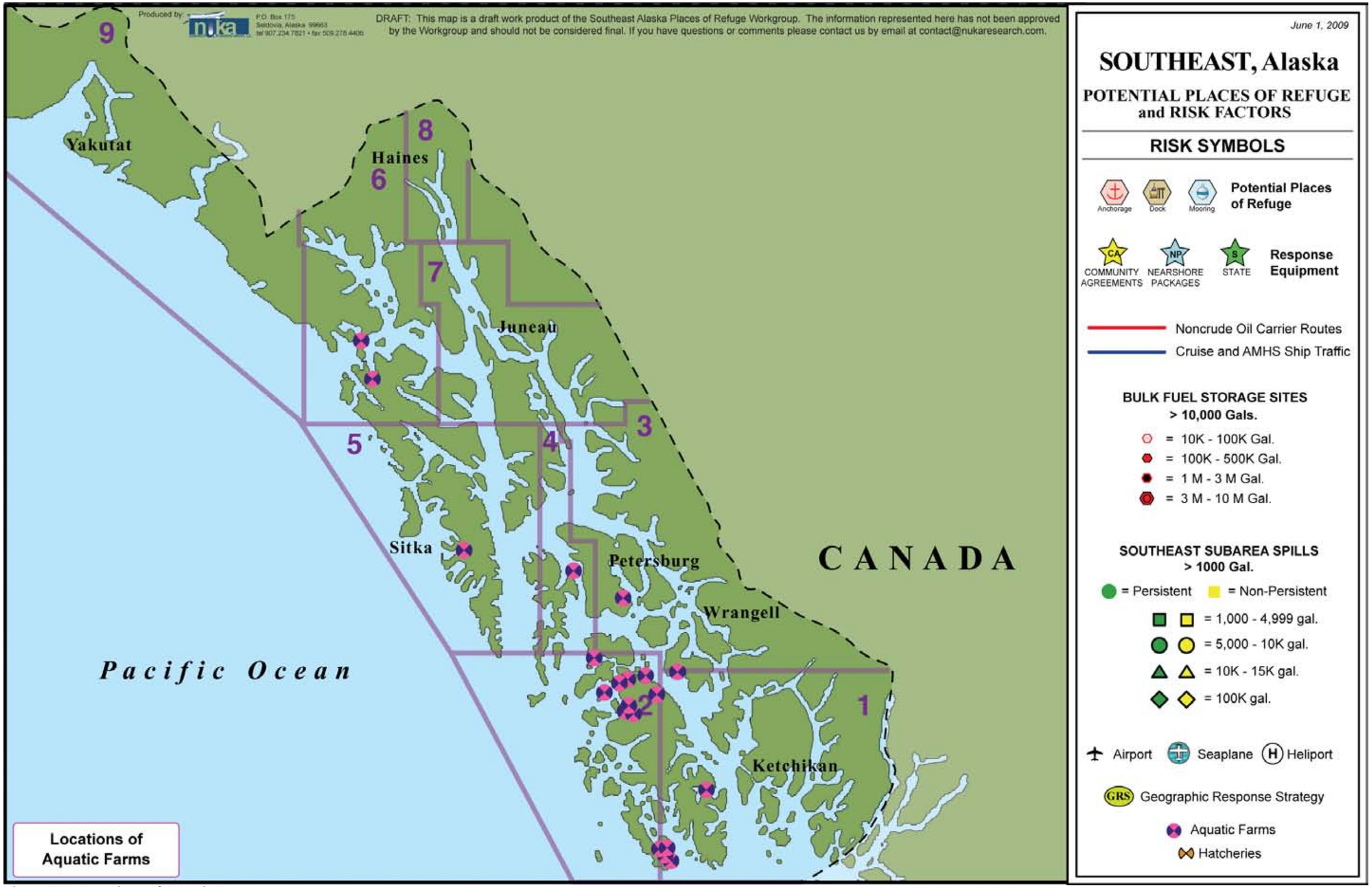


Figure H-5. Locations of Aquatic Farms.

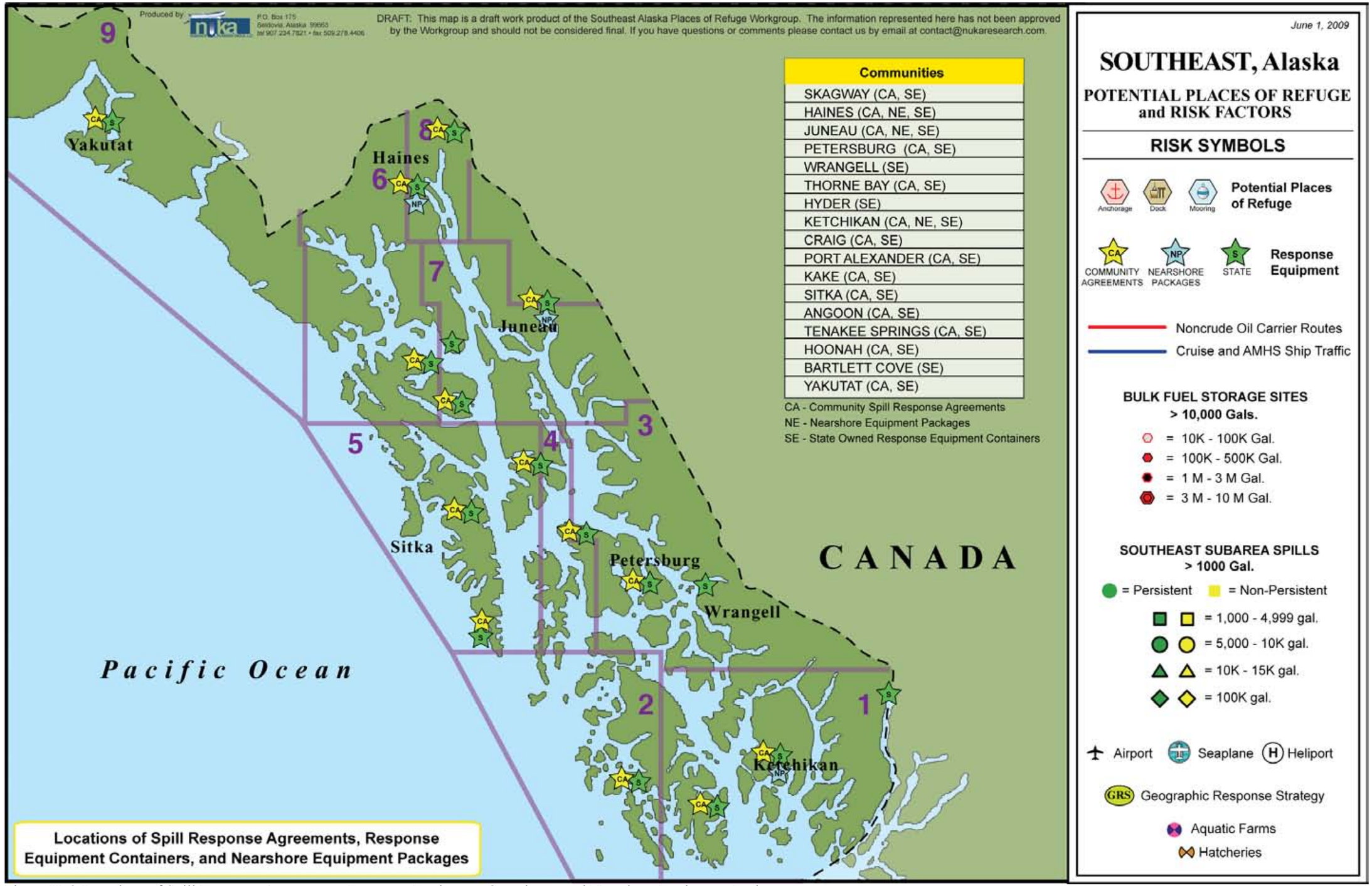


Figure H-6. Locations of Spill Response Agreements, Response Equipment Containers, and Nearshore Equipment Packages.

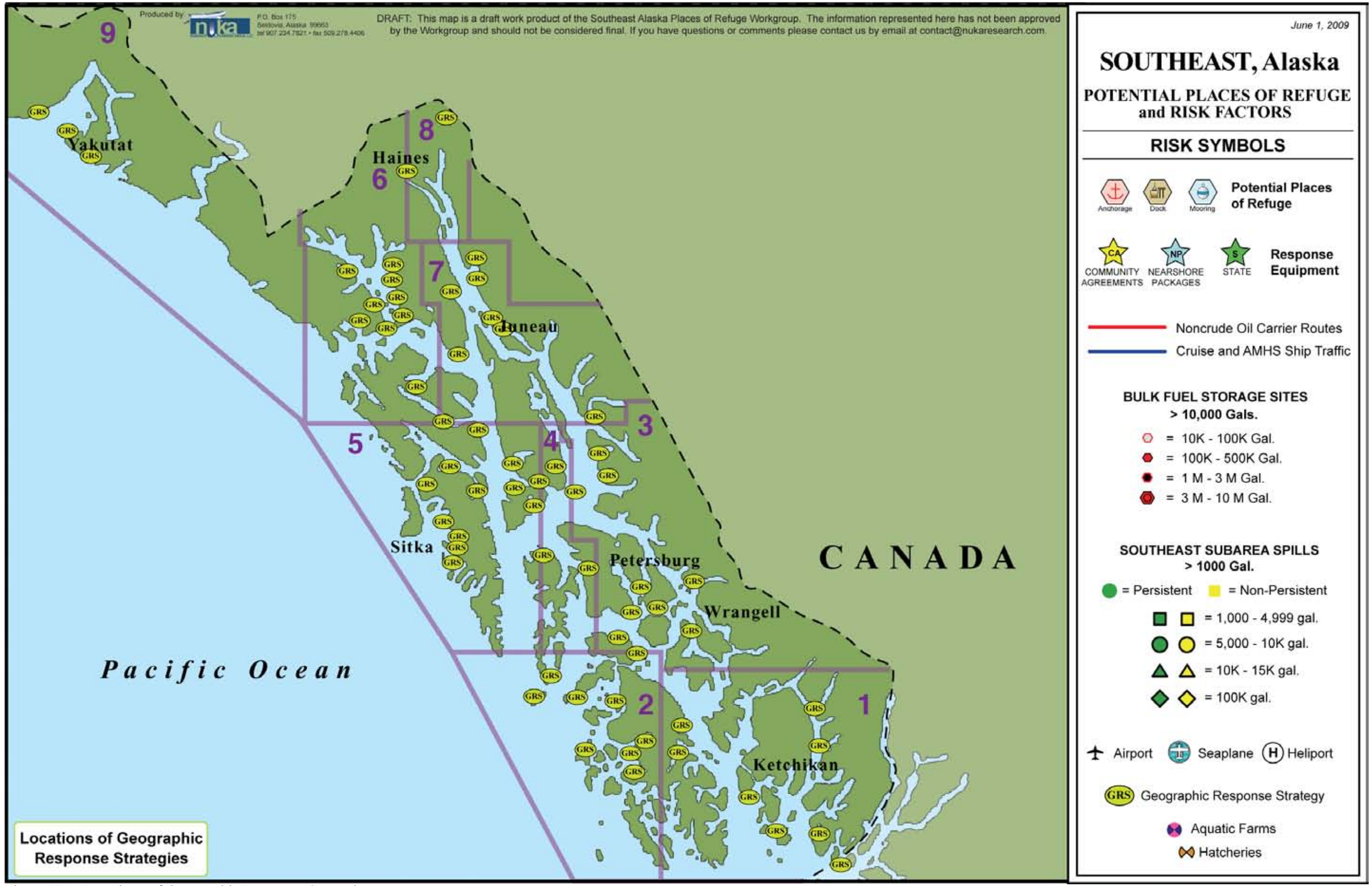
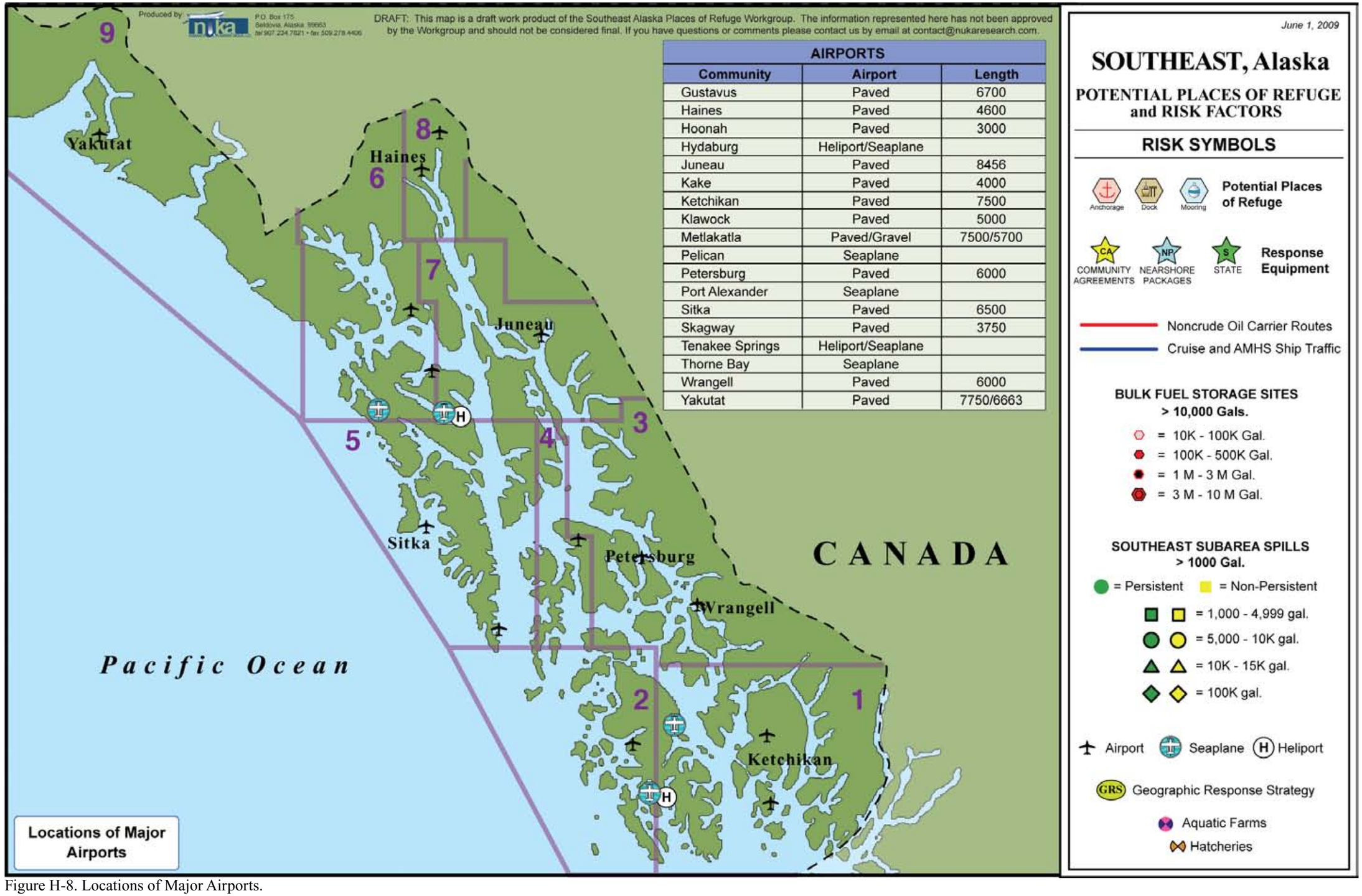


Figure H-7. Locations of Geographic Response Strategies.



AIRPORTS		
Community	**Airport**	**Length**
Gustavus	Paved	6700
Haines	Paved	4600
Hoonah	Paved	3000
Hydaburg	Heliport/Seaplane	
Juneau	Paved	8456
Kake	Paved	4000
Ketchikan	Paved	7500
Klawock	Paved	5000
Metlakatla	Paved/Gravel	7500/5700
Pelican	Seaplane	
Petersburg	Paved	6000
Port Alexander	Seaplane	
Sitka	Paved	6500
Skagway	Paved	3750
Tenakee Springs	Heliport/Seaplane	
Thorne Bay	Seaplane	
Wrangell	Paved	6000
Yakutat	Paved	7750/6663

Figure H-8. Locations of Major Airports.

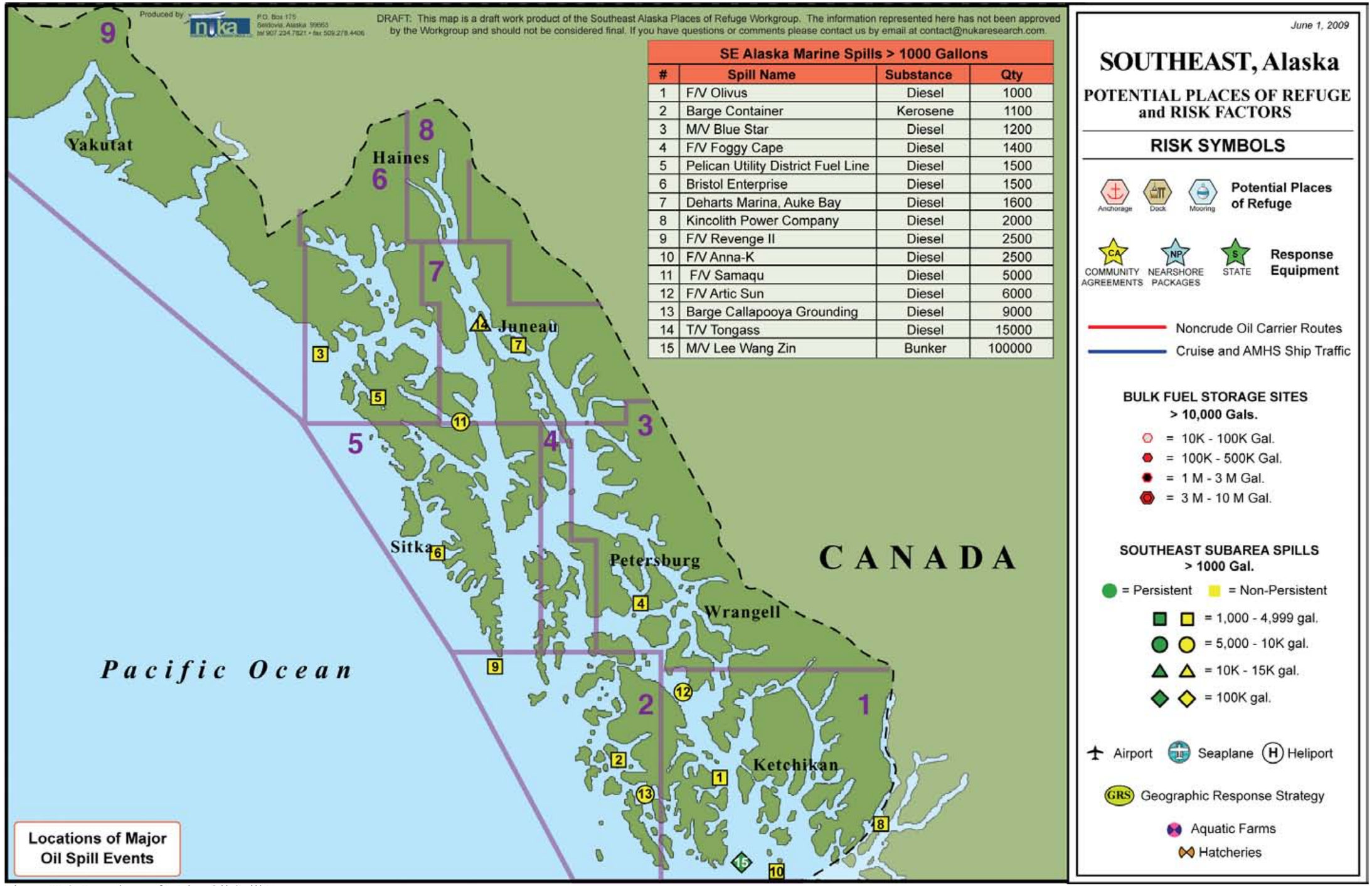


Figure H-9. Locations of Major Oil Spill Events.

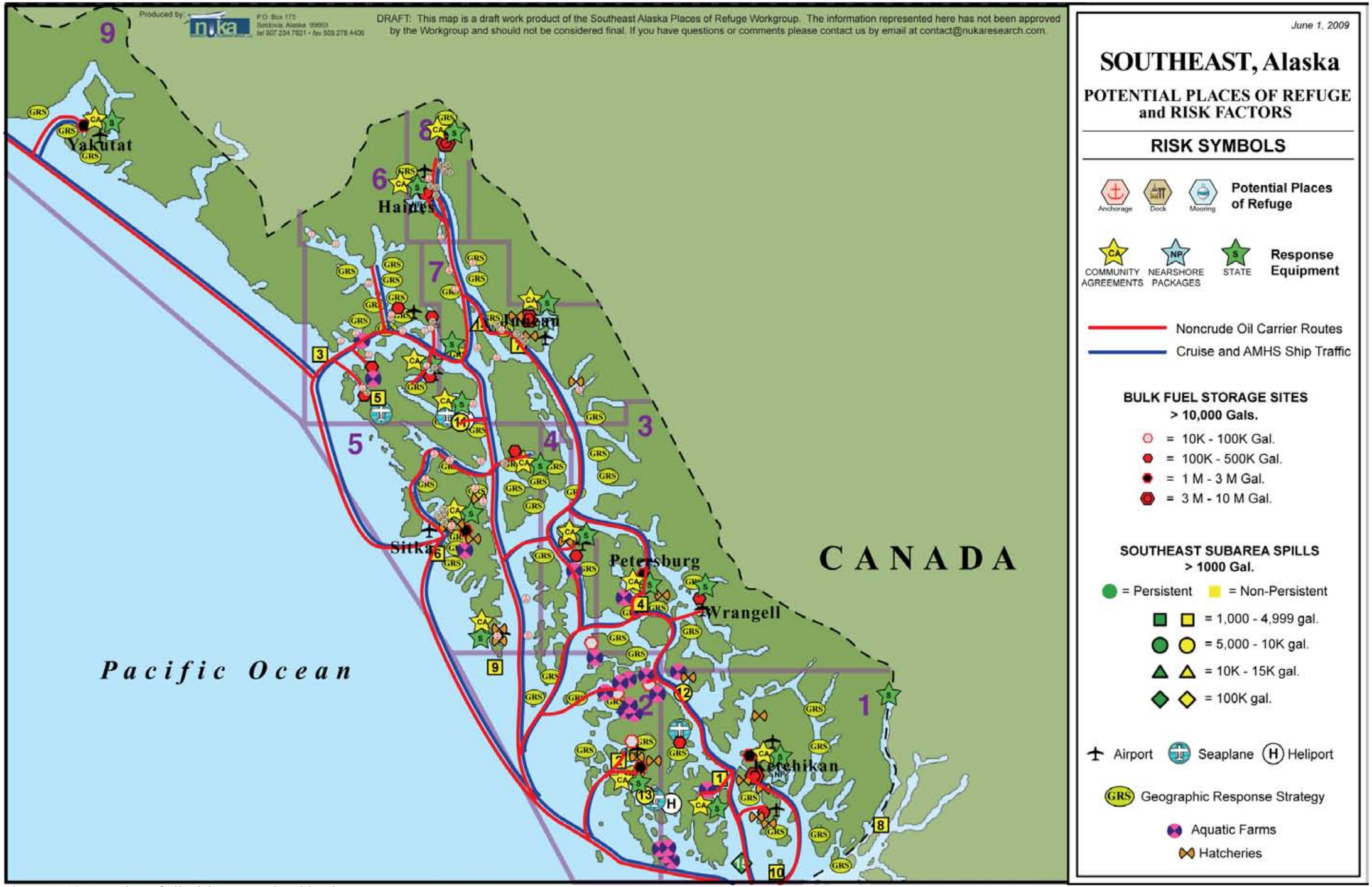


Figure H-10. Location of all Risk Factors Combined.

Southeast Subarea
Potential Places of Refuge
Site Assessment Matrix

PPOR ID# (size-zone-number)	Response Zone #	Type of berth	Location Name	Body Of Water	Lat.	Lon	Max Vessel Depth	Anchoring SwingRoom or Dock Face(w/ Dolphins) in ft.	Depth at dock face in FEET (MLLW)	Depth at anchorage in FATHOMS	Botto Type
D-1-01	1	A	Mary Island	Felice Strait	55º03.23'N	131º16.25'W	PPOR for this zone is not developed	6000		32	SG
D-1-02	1	A	Nichols Passage	Nichols Passage	55º09.98'N	131º36.70'W		3000		23	G
D-1-03	1	D/P	Port of Ketchikan Berth 1-A & 1-B	Tongass Narrows	55º20.40'N	131º38.76'W		1605	30-40		N/A
D-1-04	1	D/P	Port of Ketchikan Berth 2	Tongass Narrows	55º20.52'N	131º38.94'W		575(865)	40		N/A
D-1-05	1	D/P	AK Marine Lines-Ketchikan	Tongass Narrows	55º21.12'N	131º41.40'W		400	35		N/A
D-1-06	1	D/P	Ketchikan Ferry Terminal-1	Tongass Narrows	55º21.22'N	131º41.67'W		550	35		N/A
D-1-07	1	D/P	Ketchikan Ferry Terminal-2	Tongass Narrows	55º21.23'N	131º41.72'W		450	40		N/A
D-1-08	1	D/P	Alaska Ship & Drydock	Tongass Narrows	55º21.30'N	131º41.88'W		560	35		N/A
D-1-09	1	A	Ward Cove	Tongass Narrows	55º23.51'N	131º44.77'W		1500		30	M
D-1-10	1	D/P	Boyer Towing Dock	Tongass Narrows	55º23.82'N	131º43.68'W	PPOR for this zone is not developed	750	40		N/A
D-1-11	1	M	Tolstoi Bay Moorage	Clarence Strait	55º38.84'N	132º26.06'W		1800		73	N/A
D-1-12	1	A	Vixen Inlet	Earnest Sound	55º49.94'N	132º06.81'W		3000		28	Rky
L-1-01	1	D/P	Port of Ketchikan Berth 1-C & 1-D	Tongass Narrows	55º20.33'N	131º38.64'W		860	20ft		N/A
L-1-02	1	A	Vallenar Bay	Clarence Strait	55º23.50'N	131º51.39'W		3000		32	S
	1	D/P	Hollis Ferry Dock	Twelve Mile Arm	55º29.47'N	132º37.51'W		(200)	25		N/A

Table H-1. Key to Southeast Alaska PPOR Site Selection Matrix.

Southeast Subarea
Potential Places of Refuge
Site Assessment Matrix

PPOR ID# (size-zone-number)	Response Zone #	Type of berth	Location Name	Body Of Water	Lat.	Lon	Max Vessel Depth	Anchoring SwingRoom or Dock Face(w/ Dolphins) in ft.	Depth at dock face in FEET (MLLW)	Depth at anchorage in FATHOMS	Bottom Type	Exposure to	Conflicting uses	Ability to Boom	GRS# in the area	Sensitive Resources	Dist. to Population Center(nm)	Dist. Alt. PPOR
D-1-01	1	A	Mary Island	Felice Strait	55º03.23'N	131º16.25'W	PPOR for this zone is not developed	6000		32	SG	SW, N	CF	No	SE01-06	Not Designated	23 to M	23 to D-01-03
D-1-02	1	A	Nichols Passage	Nichols Passage	55º09.98'N	131º36.70'W		3000		23	G	S,N	CF,R,S	WD				
D-1-03	1	D/P	Port of Ketchikan Berth 1-A & 1-B	Tongass Narrows	55º20.40'N	131º38.76'W		1605	30-40		N/A	None	CI	Y	No		0 to K	
D-1-04	1	D/P	Port of Ketchikan Berth 2	Tongass Narrows	55º20.52'N	131º38.94'W		575(865)	40		N/A	None	CI, R		No		0 to K	
D-1-05	1	D/P	AK Marine Lines-Ketchikan	Tongass Narrows	55º21.12'N	131º41.40'W		400	35		N/A	None	CI	WD	No		0 to K	
D-1-06	1	D/P	Ketchikan Ferry Terminal-1	Tongass Narrows	55º21.22'N	131º41.67'W		550	35		N/A	None	CI, R	WD	No			
D-1-07	1	D/P	Ketchikan Ferry Terminal-2	Tongass Narrows	55º21.23'N	131º41.72'W		450	40		N/A	None	CI, R	WD	No			
D-1-08	1	D/P	Alaska Ship & Drydock	Tongass Narrows	55º21.30'N	131º41.88'W		560	35		N/A	None	CI, R	Y	No			
D-1-09	1	A	Ward Cove	Tongass Narrows	55º23.51'N	131º44.77'W		1500		30	M	NW	CI, R	WD	No		4 to K	
D-1-10	1	D/P	Boyer Towing Dock	Tongass Narrows	55º23.82'N	131º43.68'W	PPOR for this zone is not developed	750	40		N/A	None	CI, R	Y	No		4.25 to K	
D-1-11	1	M	Tolstoi Bay Moorage	Clarence Strait	55º38.84'N	132º26.06'W		1800		73	N/A	N	CI, R	No	SE01-05		0.0 to UA	0.3 to 62-LI
D-1-12	1	A	Vixen Inlet	Earnest Sound	55º49.94'N	132º06.81'W		3000		28	Rky	SW-N	CF	WD	No		22 to TB	
L-1-01	1	D/P	Port of Ketchikan Berth 1-C & 1-D	Tongass Narrows	55º20.33'N	131º38.64'W		860	20ft		N/A	None	CI	Y	No		0 to K	
L-1-02	1	A	Vallenar Bay	Clarence Strait	55º23.50'N	131º51.39'W		3000		32	S	W,N	R,S	WD	No		12 to K	
L-1-03	1	D/P	Hollis Ferry Dock	Twelve Mile Arm	55º29.47'N	132º37.51'W		(200)	25		N/A	None	CF, CI, R	Y	SE01-08		36 to K	
L-1-04	1	A	Lyman Anchorage	Clarence Strait	55º32.70'N	132º17.31'W		1500		9	Rky		CF,R	WD	No		11 to TB	16 to L-1-05
L-1-05	1	A	Union Bay	Earnest Sound	55º45.01'N	132º12.17'W		2400		34	SG	NW_N	CF,R	WD	No		14 to TB	16 to L-1-04
D-3-01	3	A	Woronkofski Island Anchorage	Zimovia Strait	56º26.16'N	132º25.91'W												
D-3-02	3	A	Baht Harbor	Sumner Strait	56º27.21'N	132º48.56'W	PPOR for this zone is not developed											
D-3-03	3	D/P	Wrangell Cruise Vessel Wharf	Zimovia Strait	56º28.20'N	132º23.28'W												
D-3-04	3	A	Holkum Bay Anchorage	Stephens Passage	57º45.28'N	133º39.38'W												
L-3-01	3	A	Steamer Bay	Clarence Strait	56º10.52'N	132º42.49'W												
L-3-02	3	A	Salmon Bay	Clarence Strait	56º17.54'N	133º06.74'W												
L-3-03	3	D/P	Wrangell Ferry Terminal	Zimovia Strait	56º28.44'N	132º23.46'W												
L-3-04	3	A	Point Alexander Anchorage	Sumner Strait	56º31.04'N	132º57.85'W												
L-3-05	3	D/P	South Mitkof Ferry Terminal	Sumner Strait	56º31.92'N	132º42.71'W												

Table H-2. Southeast Alaska PPOR Site Selection Matrix. Page 1 of 3.

Southeast Subarea
Potential Places of Refuge
Site Assessment Matrix

PPOR ID# (size-zone-number)	Response Zone #	Type of berth	Location Name	Body Of Water	Lat.	Lon	Max Vessel Depth	Anchoring SwingRoom or Dock Face(w/ Dolphins) in ft.	Depth at dock face in FEET (MLLW)	Depth at anchorage in FATHOMS	Bottom Type	Exposure to	Conflicting uses	Ability to Boom	GRS# in the area	Sensitive Resources	Dist. to Population Center(nm)	Dist. Alt. PPOR
L-3-06	3	A	Scow Bay Anchorage	Wrangell Narrows	56º46.00'N	132º58.47'W												
L-3-07	3	A	Farragut Bay	Frederick Sound	57º07.00'N	133º14.34'W	Zone not developed into PPOR											
D-4-01	4	A	Saginaw Bay		56º53.48'N	134º12.39'W												
D-4-02	4	A	Keku Strait	Keku Strait	56º58.86'N	134º05.17'W												
L-4-01	4	A	Calder Rocks	Sumner Strait	56º15.03'N	133º39.08'W												
L-4-02	4	A	Sumner Strait	Sumner Strait	56º23.43'N	133º13.57'W												
L-4-03	4	D/P	Kake Ferry Terminal	Keku Strait	56º58.48'N	133º56.65'W												
L-4-04	4	A	Pybus Bay	Frederick Sound	57º18.93'N	134º02.46'W												
D-5-01	5	A	Port Conclusion	Chatham Strait	56º15.89'N	134º39.89'W	40	2000		41	Rky	NE	CF,S	WD	No	Not Designated	5 to PA	20 to D-05-02
D-5-02	5	A	Tebenkof Bay	Chatham Strait	56º32.31'N	134º18.09'W	40	3000		20	G,rky,h	S,E	CF	WD	No	Not Designated	22 to PA	20 to D-05-01
D-5-03	5	D/P	USCG Dock	Sitka Sound	57º03.00'N	135º20.72'W	20	283/185	42/22		N/A	None	CF, CI, R, S,A	Yes	SE05-02,03,05,11	H	0 to S	.25 to D-05-04
D-5-04	5	D/P	Sitka City Dock	Sitka Sound	57º03.24'N	135º20.88'W	30	350	37		N/A	None	CF, CI, R, S,A	Yes	SE05-02,03,05,11	H	0 to S	.25 to D-05-03
D-5-05	5	A	Battery Island Anchorage	Sitka Sound	57º03.99'N	135º23.04'W	40	3000		17	C, Sh	S	CF, CI, R, S,A	WD	SE05-02,03,05,11	H	1.5 to S	1.25 to D-05-04
D-5-06	5	D/P	Samson Tug Dock	Sitka Sound	57º07.74'N	135º22.98'W	25	300/250	65/25		N/A	None	CF, CI, R, S,A	Yes	SE05-02,03,05,11	H	5 to S	5 to D-05-05
L-5-01	5	A	Port Malmesbury	Chatham Strait	56º16.77'N	134º16.61'W	40	2400		30	Rky	E	CF	WD	No	Not Designated	13 to PA	12 to D-05-01
L-5-02	5	M	Sawmill Cove	Sitka Sound	57º02.50'N	135º13.53'W	40	1200		32	N/A	SW	CF, CI, R, S,A	WD	SE05-02,03,05,11	H	4.25 to S	4.5 to D-05-03
L-5-03	5	D/P	Sitka Ferry Dock	Sitka Sound	57º07.98'N	135º22.75'W	25	460	30		N/A	None	CF, CI, R, S,A	Yes	SE05-02,03,05,11	H	5 to S	5 to D-05-05
L-5-04	5	A	Kasnyku Bay	Chatham Strait	57º12.91'N	134º50.93'W	40	1000		33	M	SW	CF	WD	SE05-04	H	18 to AN	8.75 to L-05-05
L-5-05	5	A	Kelp Bay	Chatham Strait	57º18.63'N	134º56.70'W	40	1700		26	Rky	None	CF	WD	SE05-04,07	H	20 to AN	8.75 to L-05-04
L-5-06	5	A	Fish Bay	Peril Strait	57º22.64'N	135º35.12'W	40	2600		33	M	None	CF,S	WD	SE05-08	H	33 to S	15 to L-05-10
L-5-07	5	D/P	Angoon Ferry Terminal	Chatham Strait	57º28.33'N	134º33.97'W	20	200	24		N/A	None	CF, CI, R, S,A	Yes	SE05-01	H	2 to AN	12.5 to L-05-08
L-5-08	5	A	Florence Bay	Chatham Strait	57º29.89'N	134º52.82'W	40	1500		28	h	S	CF	WD	No	Not Designated	12 to AN	12.5 to L-05-07
L-5-09	5	A	Point Elizabeth	Hoonah Sound	57º30.34'N	135º16.26'W	40	2700		27	h	SW,NW,SE	CF	WD	No	Not Designated	24 to AN	8.5 to L-05-10
L-5-10	5	A	Deadman Reach	Hoonah Sound	57º33.33'N	135º28.51'W	40	2400		28	M,h,S	SW,W	CF	WD	No	Not Designated	35 to S	8.5 to L-05-09
D-6-01	6	A	Idaho Inlet	Cross Sound	58º12.51'N	136º11.48'W	40+	3600		20	M	N	CF	WD	No	Not Designated	19 to G	9.5 to D-06-03
D-6-02	6	A	Taylor Bay	Cross Sound	58º17.45'N	136º32.70'W	40+	3000		32	Sh	S	CF	WD	No	Not Designated	28 to G	9.5 to D-06-03

Table H-2 continued. Southeast Alaska PPOR Site Selection Matrix. Page 2 of 3.

Southeast Subarea
Potential Places of Refuge
Site Assessment Matrix

PPOR ID# (size-zone-number)	Response Zone #	Type of berth	Location Name	Body Of Water	Lat.	Lon	Max Vessel Depth	Anchoring SwingRoom or Dock Face(w/ Dolphins) in ft.	Depth at dock face in FEET (MLLW)	Depth at anchorage in FATHOMS	Bottom Type	Exposure to	Conflicting uses	Ability to Boom	GRS# in the area	Sensitive Resources	Dist. to Population Center(nm)	Dist. Alt. PPOR
D-6-03	6	A	Dundas Bay	Cross Sound	58º20.36'N	136º20.31'W	40	3000		12	M, rky	S	CF,R	WD	SE06-07	H	21 to G	9.5 to D-06-01
D-6-04	6	A	East Pleasant Island	Icy Strait	58º21.50'N	135º31.59'W	40+	4200		24	M,SH	S	CF,R	WD	No	Not Designated	7 to G	2.5 to D-06-06
D-6-05	6	A	West Pleasant Island	Icy Strait	58º21.56'N	135º47.09'W	40+	6000		31	M	SW-E	CF,R	WD	SE06-01	H	2.5 to G	10 to D-06-07
D-6-06	6	A	Excursion Inlet	Icy Strait	58º22.45'N	135º27.24'W	40	3000		14	M	N,S	CF,R	WD	No	Not Designated	3.5 to G	2.5 to D-06-04
D-6-07	6	A	Outer Bartlett Cove	Glacier Bay	58º26.42'N	135º55.70'W	40+	3600		21	M	W	CF, R	WD	SE06-02	H	1.5 to G	10 to D-06-05
D-6-08	6	A	Drake Island Anchorage	Glacier Bay	58º39.27'N	136º11.52'W	40	3600		14	Rky	N-SE	CF, R	WD	SE06-04.06,08	H	20 to G	17 to D-06-07
D-6-09	6	A	Composite Island	Glacier Bay	58º53.79'N	136º35.14'W	40+	2400		24	M,S	S	CF,R	No	SE06-08,09	H	38 to G	11 to D-06-10
D-6-10	6	A	Russell Island	Glacier Bay	58º57.28'N	136º52.66'W	40	2000		30	M	NW	R	WD	SE06-05	H	44 to G	11 to D-06-09
L-6-01	6	A	Lisianski Inlet	Lisianski Inlet	57º58.72'N	136º15.01'W	20	1200		20	G	S, NW	CF,R,S	WD	No	Not Designated	1.5 to P	22 to D-06-02
L-6-02	6	M	Hoonah Moorage	Port Frederick	58º06.16'N	135º28.14'W	20	1200		28	N/A	N	CF, CI, R, A	WD	SE06-03	H	0.25 to H	2 to L-06-03
L-6-03	6	A	Halibut Rock Anchorage	Port Frederick	58º07.88'N	135º30.39'W	20	3000		13	Rky	S	CF, CI, R, S	WD	SE06-03	H	2.25 to H	2 to L-06-02
L-6-04	6	D/P	Excursion Inlet Cannery Dock	Glacier Bay	58º24.97'N	135º26.82'W	20	130	25		N/A	S, NW	CF, CI, R, S	Yes	No	Not Designated	12 to G	17.5 to L-06-03
L-6-05	6	A	Inner Bartlett Cove	Glacier Bay	58º27.13'N	135º54.97'W	20	2800		28	M	SW	CF, R	WD	SE06-02	H	.5 to G	22 to L-06-04
D-7-01	7	A	Lyoukeen Cove	Chatham Strait	57º53.03'N	134º57.71'W	40+	3600		24	S	NE-SE	CF	WD	No	Not Designated	15 to TS	38 to D-06-04
D-7-02	7	A	Gilbert Bay	Stephens Passage	57º57.22'N	133º42.19'W	40+	2800		30	M	None	CF	WD	No	E	35 to J	25 to D-03-04
D-7-03	7	A	Young Bay	Stephens Passage	58º10.61'N	134º40.80'W	40+	3000		22	M,G	N	CF, R	WD	No	Not Designated	24 to J	24 to D-07-04
D-7-04	7	D/P	Princess Cruise Line Ship Terminal	Gastineau Channel	58º17.46'N	134º23.64'W	30*	960	30		N/A	None	CF, CI, R	Yes	SE07-01	Not Designated	0 to J	.5 to D-07-05
D-7-05	7	D/P	Juneau Cruise Ship Terminal	Gastineau Channel	58º17.82'N	134º24.24'W	27*	1700	27		N/A	None	CF, CI, R	Yes	SE07-01	Not Designated	0 to J	.5 to D-07-04
D-7-06	7	A	Auke Bay	Lynn Canal	58º22.19'N	134º40.04'W	40+	3600		29	M	None	CF, CI, R	WD	SE07-01,02	H,MESA-61	2 to J	14 to D-07-03
D-7-07	7	A	St James Bay	Lynn Canal	58º36.09'N	135º10.09'W	40	2400		10	M,P	None	CF, R	WD	SE07-05	H	24 to J	16 to D-07-07
D-7-08	7	A	Berners Bay	Lynn Canal	58º46.00'N	134º57.20'W	40+	3000		27	M	S	CF, R	WD	SE07-04,06	H	31 to J	16 to D-07-06
L-7-01	7	A	Funter Bay	Lynn Canal	58º14.34'N	134º54.58'W	25	1500		27	Sh, P	E	CF, R	WD	SE07-03	H	22 to H	21 to L-06-03

Table H-2 continued. Southeast Alaska PPOR Site Selection Matrix. Page 3 of 3.

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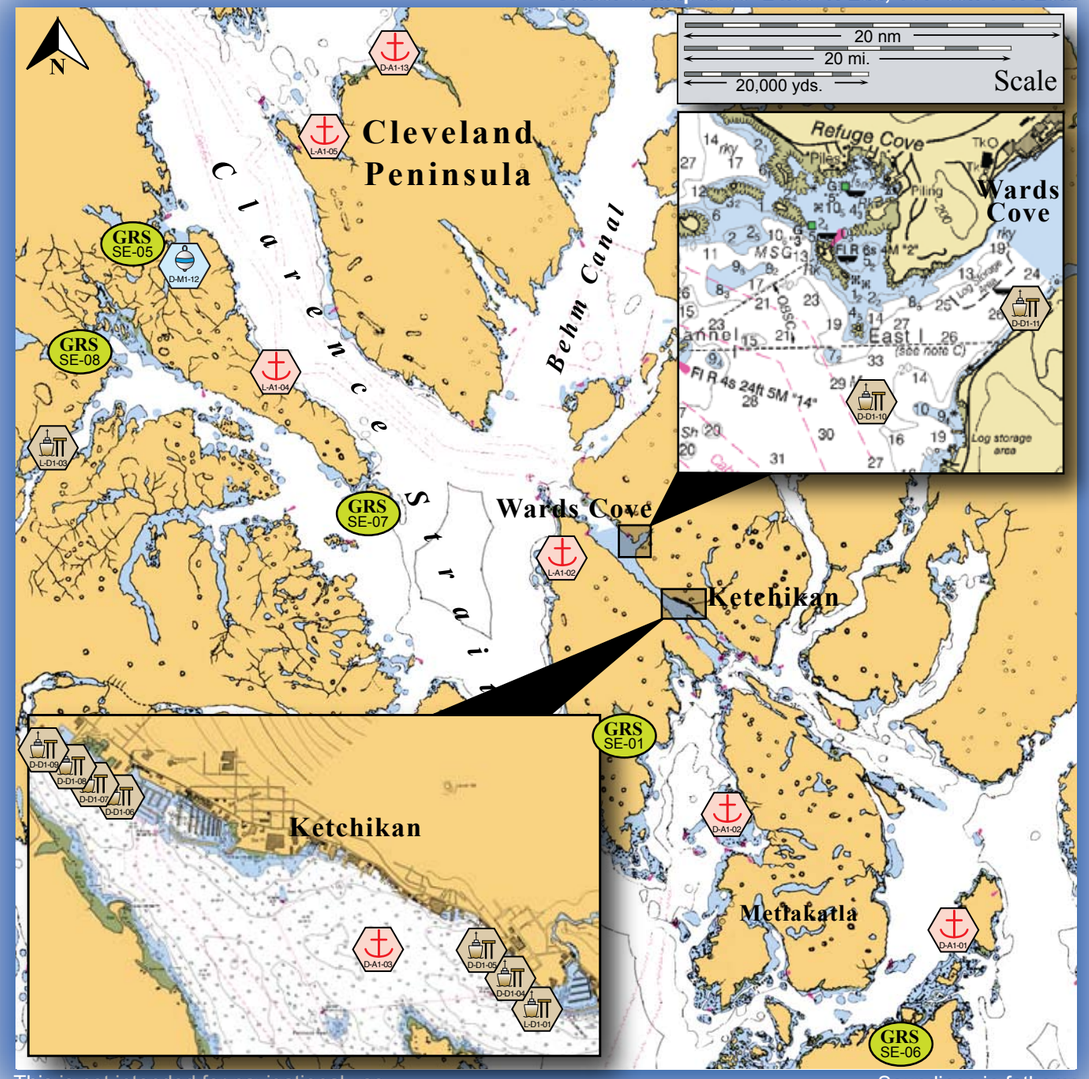
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 55˚ 24.38' N Lat., 131˚ 50.74' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea Map Locator

Map Legend

- Anchorage
- Existing GRS
- Mooring
- Fish Hatchery
- Dock/pier
- Private Cabins
- Crane
- Public Use Cabins
- Airport
- Boat Harbor

Southeast PPOR

Map 01

USGS 1:229,376K Quadrangle Map Reference - Hecate Strait to Etolin Island 17420

NUKA Research & Planning Group, LLC.

Site Information for *Southeast Alaska PPOR Map 01*

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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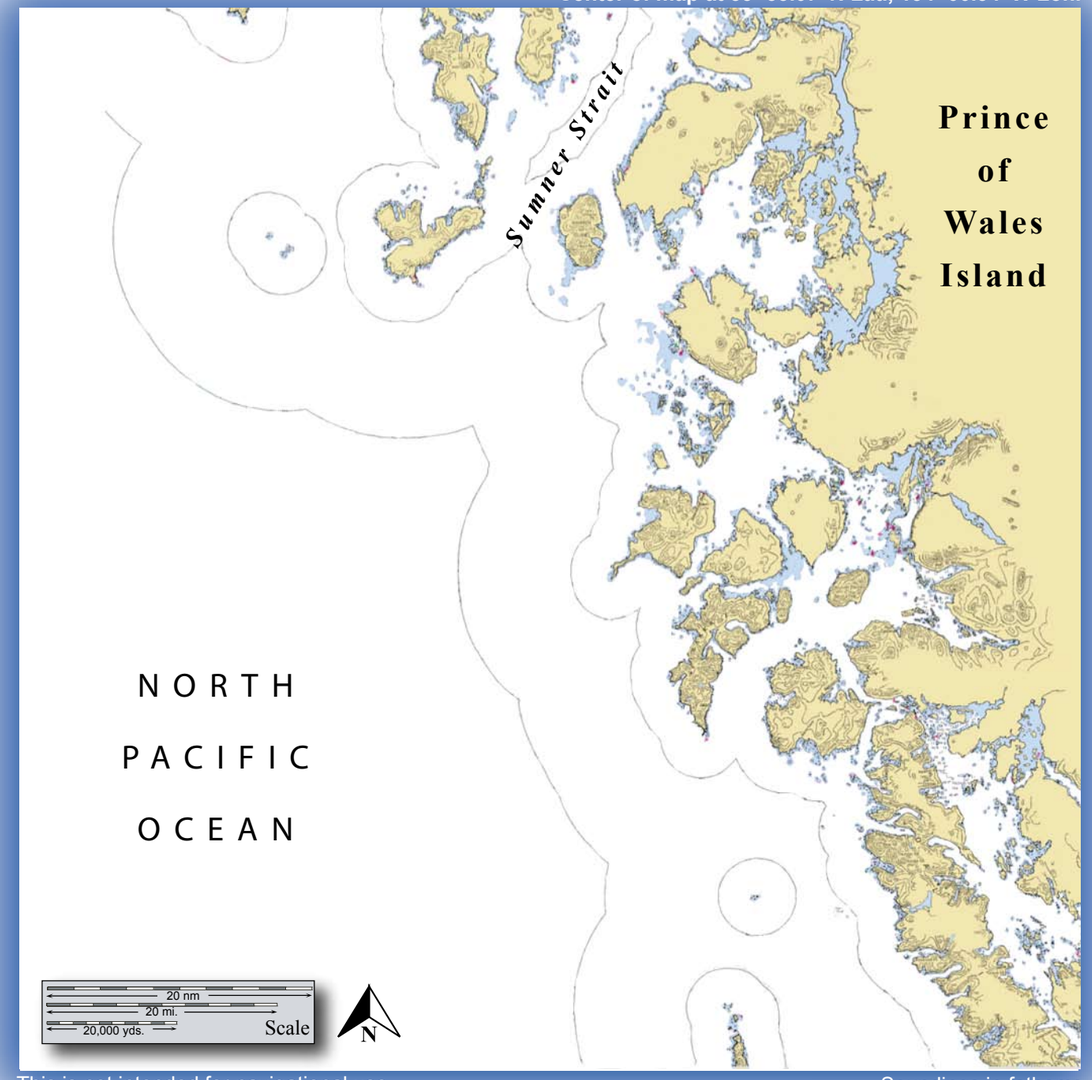
Potential Places of Refuge *for Southeast Alaska Subarea*

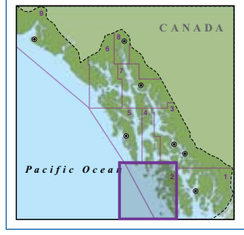
Center of map at 55˚ 33.07' N Lat., 134˚ 00.34' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea Map Locator



Map Legend

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 02

USGS 1:229,376K Quadrangle
Map Reference - Dixon Entrance to Chatham Strait 17400_1

Site Information for *Southeast Alaska PPOR Map 02*

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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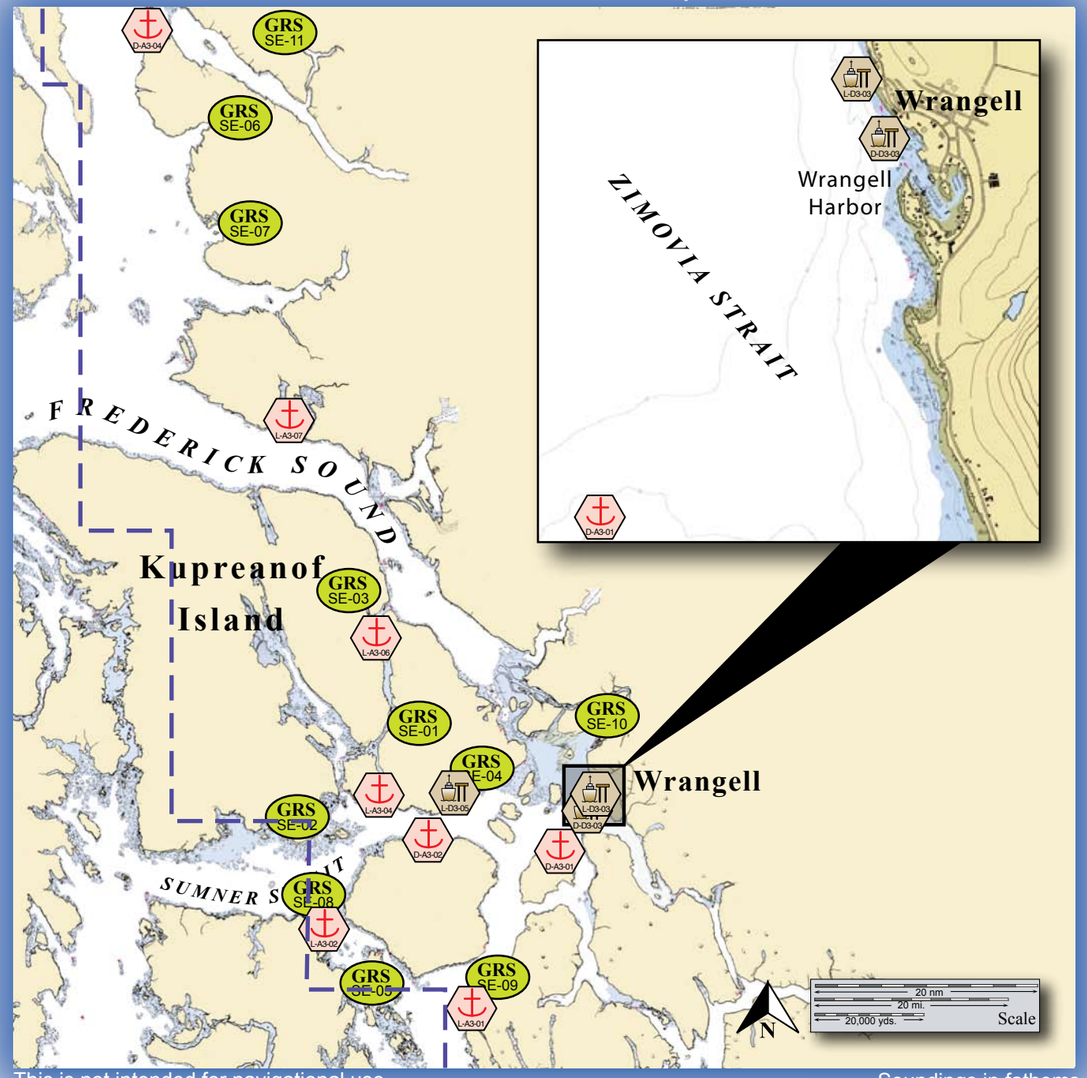
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 55˚ 24.38' N Lat., 131˚ 50.74' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Map Locator

Map Legend

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 03

USGS 1:217,828K Quadrangle Map Reference - Etolin Isl to Midway Isl Including Sumner Strait 17360_1

Site Information for *Southeast Alaska PPOR Map 03*

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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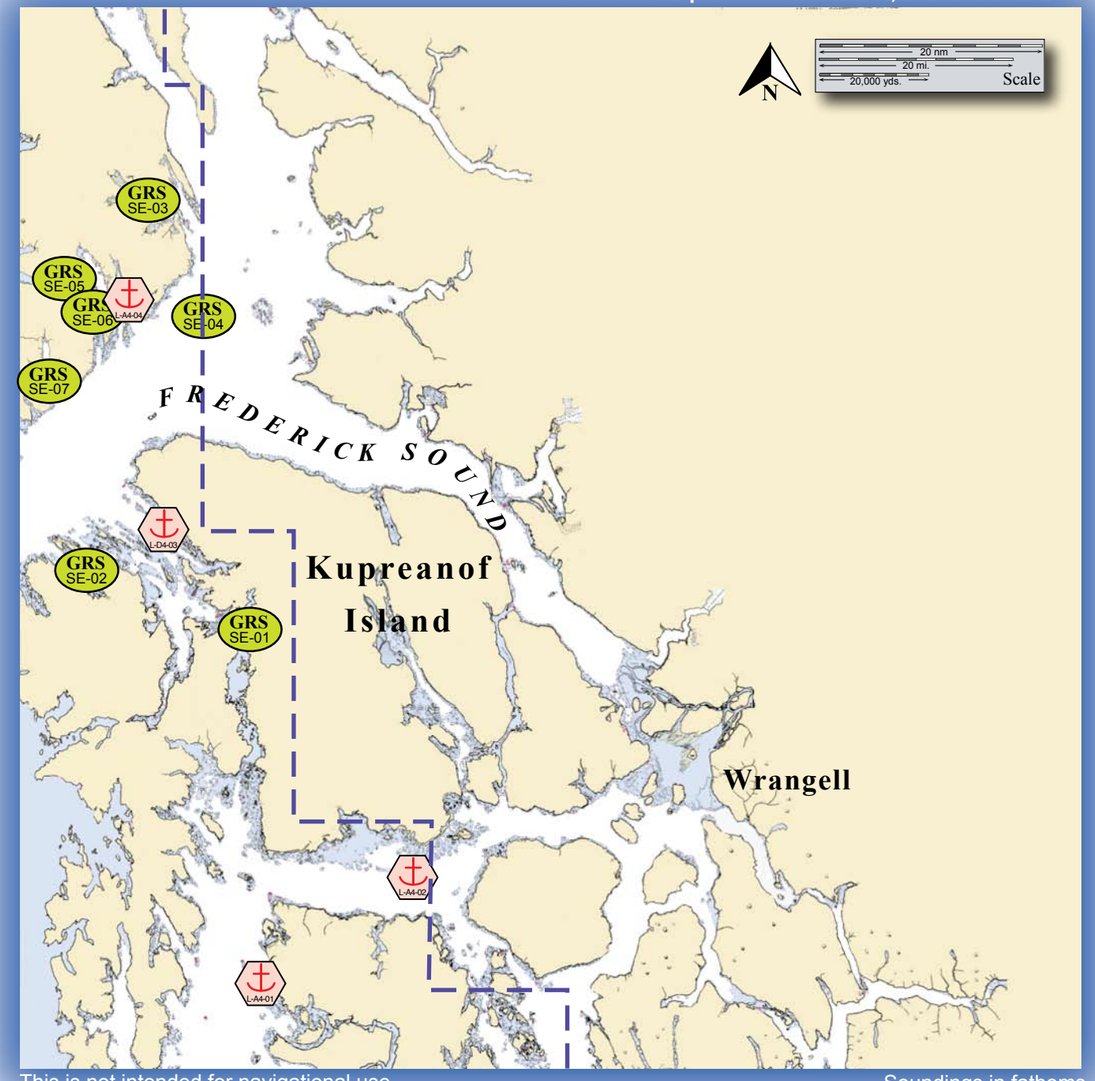
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 56˚ 54.75' N Lat., 132˚ 48.61' W Lon.



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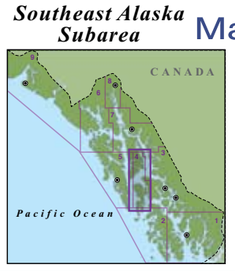
Soundings in fathoms

Locator Map



Legend Map

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 04

USGS 1:217,828K Quadrangle Map Reference - Etolin Isl to Midway Isl Including Sumner Strait 17360_1

NUKA Research & Planning Group, LLC.

Site Information for *Southeast Alaska PPOR Map 04*

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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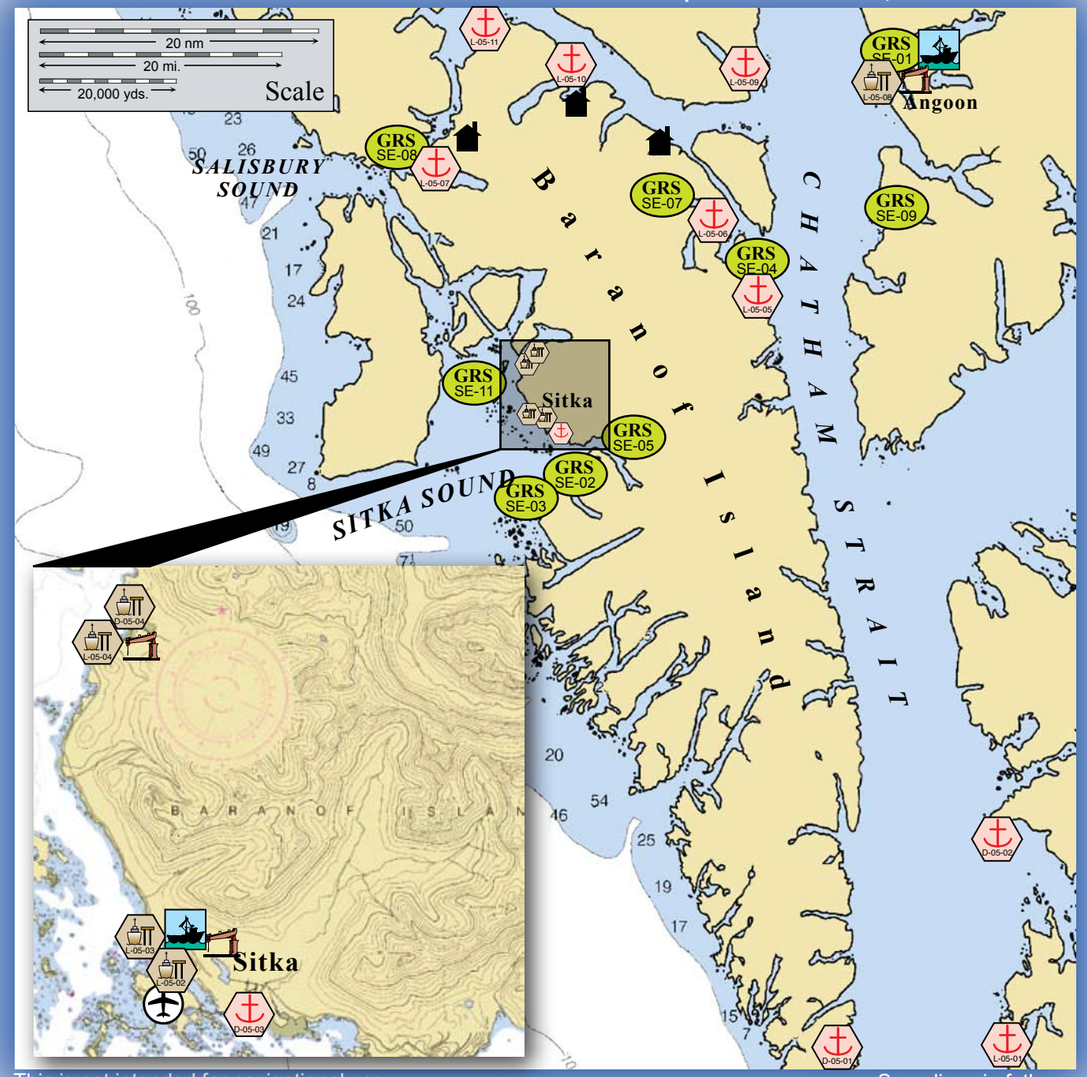
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 56˚ 56.75’ N Lat., 135˚ 13.29’ W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea Map Locator

Map Legend

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 05

USGS 1:969,756K Quadrangle Map Reference - Dixon Entrance to Cape St Elias 16016_1

NUKA Research & Planning Group, LLC.

Site Information for Southeast Alaska PPOR Map 05

Site Considerations for PPOR Zone 05 of the Southeast Alaska Subarea

	Port Conclusion	Tebenkof Bay	Eastern Anchorage	Samson Tug Dock	Port Malmesbury	USCG Dock	Sitka City Dock	Sitka Ferry Dock	Kasnyku Bay	Kelp Bay	Fish Bay	Angoon Ferry Terminal	Florence Bay	Point Elizabeth	Deadman Reach
ID Number	**D-05-01**	**D-05-02**	**D-05-03**	**D-05-04**	**L-05-01**	**L-05-02**	**L-05-03**	**L-05-04**	**L-05-05**	**L-05-06**	**L-05-07**	**L-05-08**	**L-05-09**	**L-05-10**	**L-05-11**
Human Health & Safety															
Community-distance to (nm)	5 to Port Alexander	22 to Port Alexander	1.5 to Sitka	0 to Sitka	13 to Port Alexander	0 to Sitka			18 to Angoon	20 to Angoon	33 to Sitka	2 to Angoon	12 to Angoon	24 to Angoon	40 to Sitka
Health Care Facilities	EMS services in Port Alexander		Full Hospital Services in Sitka		EMS services in Port Alexander	Full Hospital Services in Sitka			Clinic Services in Angoon		Full Hospital Services in Sitka	Clinic Services in Angoon			Full Hospital Services in Sitka
Natural Resources Considerations															
Fish & Wildlife	Spawning salmon, seals, waterfowl concentrations	Spawning salmon, seals, waterfowl concentrations			Spawning salmon, seals, otters, waterfowl concentrations	Spawning salmon, herring, seals, otters, waterfowl and seabird concentrations			Spawning salmon, seals, otters, waterfowl, Steller sea lions in area		Spawning salmon, herring, seals, otters, waterfowl	Spawning salmon, seals, otters, waterfowl concentrations, humpback whale concentration			
Threatened & Endangered Species	Steller sea lions (threatened) haul-out at Cape Ommaney	None	Steller sea lions (threatened) in the area		None	Steller sea lions (threatened) in the area			Steller sea lion haulout in the area		None	Steller sea lions (threatened) in the area		None	
Sensitive Areas	No designated areas	Designated Wilderness Area	This locale is designated as a Special Management Area of the Sitka Coastal Mgt. Plan. Area designated sensitive by SE GRS Workgroup. MESA-62 St. Lazaria in Sitka Sound.		Not Designated	MESA-62 St. Lazaria Is. These locales are a Special Management Area of the Sitka Coastal Mgt. Plan. Designated high priority by SE GRS Workgroup.			Designated high priority by SE GRS Workgroup.	These locales are Special Management Areas of the Sitka Coastal Mgt. Plan.		Area designated high priority by SE GRS Workgroup.	These locales are a Special Management Area of the Sitka Coastal Mgt. Plan.		
Other Stakeholder Considerations															
Fisheries	Salmon, Groundfish, Crab		Salmon, Groundfish, Crab, Herring		Salmon, Groundfish, Crab	Salmon, Groundfish, Crab, Herring			Salmon, Crab, Groundfish		Salmon, Groundfish, Crab, Herring	Salmon, Crab, Groundfish			
Historic Properties	Historic properties are present throughout the area.														
Mariculture	Little Port Walter Fish Hatchery nearby	None	Hatchery and Shellfish Mariculture present		None Present	Hatchery and Shellfish Mariculture present			Hatchery rearing pens nearby	None present					
Subsistence	High local subsistence use	Low level subsistence use	High local subsistence use		Low level subsistence use	High local subsistence use-salmon, herring, crab									
Tourism/Recreation	High recreational use throughout the area-sport fishing, wildlife viewing, excursions, camping, cruise ships, hunting														
Waterfront Public Facilities/Parks	Tongass National Forest-No waterfront facilities	Tebenkof Bay Wilderness Area-no waterfront facilities	Municipality owned small boat harbor and supporting services are present in Sitka. Tongass National Forest	Starrigavan State Parks, Old Sitka State Historical Park, Starrigavan Forest Service campground. Sitka Harbor nearby	Tongass National Forest-No waterfront facilities	Municipality owned small boat harbor and supporting services are present in Sitka. Tongass National Forest .		Starrigavan State Parks, Old Sitka State Historical Park, Starrigavan Forest Service campground. Sitka Harbor nearby	Tongass National Forest-No waterfront facilities		Tongass National Forest-Small cabin in bay	State Ferry Terminal	Tongass National Forest-No waterfront facilities		
Waterfront Private Facilities	None present		Numerous marine services docks and piers		None	Numerous marine services docks and piers			None	Private Docks	None	Private facilities in Angoon	None		
Response and Salvage Resource Consideration															
Ability to Boom Vessel	Weather Dependent		Weather Dependent	Yes	Weather Dependent	Yes		Yes	Weather Dependent			Yes	Weather Dependent		
Geographic Response Strategies	None (2009)		SE05-02,03,05,11	SE05-11	None (2009)	SE05-02,03,05,11			SE05-04	SE05-07	None (2009)	SE05-01	None (2009)		
Closest Alternative PPOR for a same sized vessel	20 to D-05-02	20 to D-05-01	9 to D-05-04	9 to D-05-03	12 to D-05-01	.25 to L-05-03	.25 to L-05-02	7 to L-05-03	8.75 to L-05-06	8.75 to L-05-05	15 to L-05-11	12 to L-05-09	12 to L-05-08	8.5 to L-05-11	8.5 to L-05-10

Site ID Number and Vessel Size Classification

D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

Stakeholders for PPOR Zone 05 of the Southeast Alaska Subarea

Year-2009	*Contact*
Alaska Department of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer
Angoon Community Association (IRA)	President
Central Council Tlingit-Haida Tribal	President
City and Borough of Sitka	Municipal Administrator
City of Angoon	Mayor
City of Port Alexander	Mayor
Native Allotments	Dept of the Interior-Regional Environmental Officer
Sealaska Corporation	President
Sitka Tribe of Alaska (IRA)	Chairperson
Tongass National Forest	Forest Supervisor

Physical and Operational Characteristics for PPOR Map 05 of the Southeast Alaska Subarea

	Port Conclusion	Tebenkof Bay	Eastern Anchorage	Samson Tug Dock	Port Malmesbury	USCG Dock	Sitka City Dock	Sitka Ferry Dock	Kasnyku Bay	Kelp Bay	Fish Bay	Angoon Ferry Terminal	Florence Bay	Point Elizabeth	Deadman Reach
ID Number	**D-05-01**	**D-05-02**	**D-05-03**	**D-05-04**	**L-05-01**	**L-05-02**	**L-05-03**	**L-05-04**	**L-05-05**	**L-05-06**	**L-05-07**	**L-05-08**	**L-05-09**	**L-05-10**	**L-05-11**
Location *(in the general area)*	56°15.89'N 134°39.89'W	56°32.31'N 134°18.09'W	57°02.27'N 135°18.22'W	57°07.74'N 135°22.98'W	56°16.77'N 134°16.61'W	57°03.00'N 135°20.72'W	57°03.24'N 135°20.88'W	57°07.98'N 135°22.75'W	57°12.91'N 134°50.93'W	57°18.63'N 134°56.70'W	57°22.64'N 135°35.12'W	57°28.33'N 134°33.97'W	57°29.89'N 134°52.82'W	57°30.34'N 135°16.26'W	57°33.33'N 135°28.51'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT				Light Draft Vessel - up to 450 feet in length, draft up to 20 feet										
Type of Berthing	Anchorage			Dock	Anchorage	Dock			Anchorage			Dock	Anchorage		
Contact	N/A		Harbormaster 907.747.3439	907.747.8559	N/A	Commanding Officer 907. 966.5470	Harbormaster 907.747.3439	Ferry Office 907.747.8737	N/A			907.788.3653	N/A		
Navigational Approach	NE	S-SW	SW	SW	W	NW via marked channel-Approach has little maneuvering room		SW	E	E	W	S via marked channel	SE	NW-E	S-NE
Minimum Water Depths *(MLLW)*	41 fathoms	20 Fathoms	13 Fathoms	60/25 ft.	30 fathoms	42/22 ft.	37 ft.	30 ft.	33 fathoms	26 fathoms	33 fathoms	24 ft.	28 fathoms	27 fathoms	28 fathoms
Maximum Vessel Draft	40 ft.			Varies	No minimum depth	20 ft.	32 ft.	25 ft.	No minimum depth, limited by approach and swing room			20 ft.	No minimum depth, limited by approach and swing room		
Swing Room or Dock Face *(w/ dolphins)*	2000 ft.	3000 ft.	2400 ft.	300/250 ft.	2400 ft.	283/185 ft.	350 ft.	460 ft.	1000 ft.	1700 ft.	2600 ft.	200 ft.	1500 ft.	2700 ft.	2400 ft.
Bottom Type	Rocky	Gravel, Rocky, Hard	Mud	N/A	Rocky	N/A			Mud	Rocky	Mud	N/A	Hard	Hard	Mud, Sand, Hard
Nearest Alternative Dock/Piers	79 nm to D-05-04	97 nm to D-05-04	8 nm to D-05-04	Options limited for additional deep draft docks	13 nm to D-05-01	.25 nm to L-05-03	.25 nm to L-05-02	.5 nm to D-05-04	18.75nm to L-05-08	19 nm to L-05-08	25 nm to L-05-04	12.5 nm to L-05-09	12.5 to L-05-08	24 nm to L-05-08	32.5 nm to L-05-08
Nearest Alternative Anchorage	20 nm to D-05-02	20 nm to D-05-01	77 nm to D-05-01	8 nm to D-05-03	60 nm to L-05-04	4 nm to D-05-03	4 nm to D-05-03	9 nm to D-05-03	8.75 nm to L-05-06	8.75 nm to L-05-05	15 nm to L-05-11	54 nm L-04-03	17 nm to L-05-10	8.5 nm to L-05-11	8.5 nm to L-05-10
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February														
Currents	Minimum currents in anchorage			Minimal current at the dock	Currents under 1 knot	Currents under 1 knot in Sitka Harbor		Minimal current at the dock	Minimum currents in anchorage		The current is between 1.4 and 2.5 knots in Peril Strait, areas to 9 knots	Minimal current at the dock	Minimum currents in anchorage		
Tides	Mean High 10.5 ft. (Higher 11.4) Mean Low ---- (Lower -4.0)	Mean High 10.9 ft. (Higher 11.8) Mean Low 1.5 (Lower -4.0)	Mean High 9.2ft. (Higher 9.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.7 ft. (Higher 15.6) Mean Low 1.6 (Lower -4.5)	Mean High 10.3 ft. (Higher 11.2) Mean Low 1.5 (Lower -4.0)	Mean High 9.2ft. (Higher 9.9) Mean Low 1.5 (Lower ---)			Mean High 15 ft. (Higher 15.8) Mean Low 1.4 (Lower -4.5)	Mean High 15.6 ft. (Higher 16.5) Mean Low 1.5 (Lower -4.5)	Mean High 12.4 ft. (Higher 13.6) Mean Low 1.6 (Lower -4.0)	Mean High 13.2 ft. (Higher 14.1) Mean Low 1.6 (Lower -5.5)	Mean High 13.4 ft. (Higher 14.7) Mean Low 1.6 (Lower -5.0)		
Sea Conditions	Exposed to swells from the NE	Exposed to swells from the S to E	Sheltered	Sheltered	Exposed to swells from the SW	Sheltered			Exposed to swells from SE	Sheltered	Exposed to swells from W	Sheltered	Exposed to swells from S-SE	Exposed to swells from NE, W, SW	Exposed to swells from NW
Shelter from Severe Storms	Sheltered from SE-N storms	Sheltered from N-SE storms			Sheltered from NE-SE				Sheltered from S-N		Sheltered from N-S		Sheltered from E-W	Sheltered from E, N, S	Sheltered from N-W
Fog	Frequent throughout the year. Chatham Strait area is often clear during foggy weather on the outer coast														

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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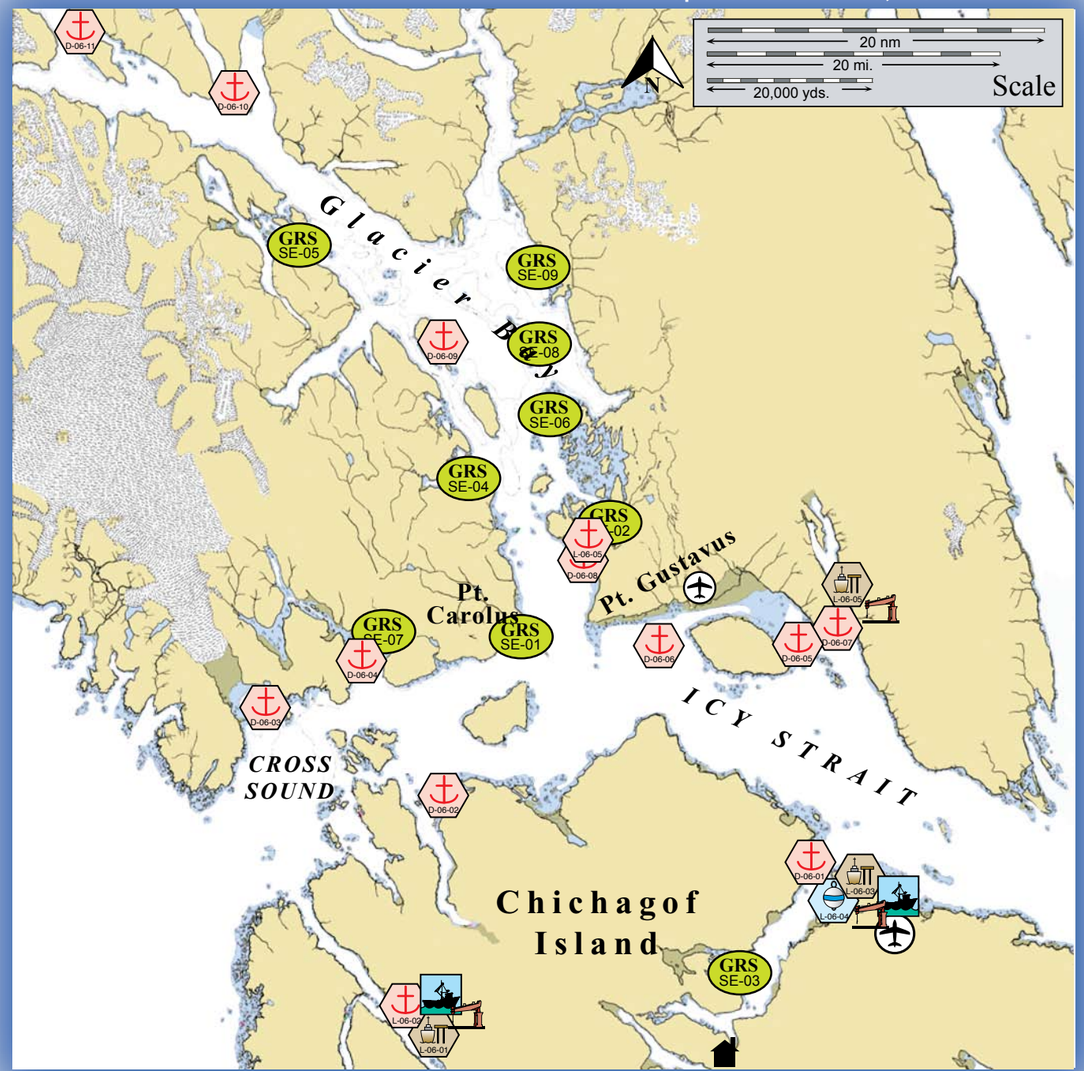
Potential Places of Refuge *for Southeast Alaska Subarea*

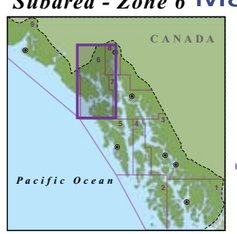
Center of map at 58˚ 30.22’ N Lat., 135˚ 57.50’ W Lon.



This is not intended for navigational use.

Soundings in fathoms

Locator Map



Legend Map

- Anchorage
- Existing GRS
- Mooring
- Fish Hatchery
- Dock/pier
- Private Cabins
- Crane
- Public Use Cabins
- Airport
- Boat Harbor

Southeast PPOR

Map 06

USGS 1:209,978K Quadrangle Map Reference - Stephens Passage to Cross Sound Including Lynn Canal 17300_1

Site Information for Southeast Alaska PPOR Map 06

Site Considerations for PPOR Zone 06 of the Southeast Alaska Subarea

	Port Frederick Anchorage-Halibut Rock	Idaho Inlet	Taylor Bay	Dundas Bay	East Pleasant Island	West Pleasant Island	Excursion Inlet	Outer Bartlett Cove	Drake Island Anchorage	Composite Island	Russell Island	Pelican Ferry Terminal	Lisianski Inlet	Hoonah Ferry Terminal	Hoonah Moorage	Excursion Inlet Cannery Dock	Inner Bartlett Cove
ID Number	**D-06-01**	**D-06-02**	**D-06-03**	**D-06-04**	**D-06-05**	**D-06-06**	**D-06-07**	**D-06-08**	**D-06-09**	**D-06-10**	**D-06-11**	**L-06-01**	**L-06-02**	**L-06-03**	**L-06-04**	**L-06-05**	**L-06-06**
Human Health & Safety																	
Community-distance to (nm)	2.25 to Hoonah	19 to Gustavus	28 to Gustavus	21 to Gustavus	7 to Gustavus	2.5 to Gustavus	3.5 to Gustavus	1.5 to Gustavus	20 to Gustavus	38 to Gustavus	44 to Gustavus	0 to Pelican	1.5 to Pelican	.25 to Hoonah	2.25 to Hoonah	12 to Gustavus	.5 to Gustavus
Health Care Facilities	Community Clinic at Hoonah with limited emergency services	Community Clinic at Gustavus with limited emergency services										Community Clinic at Pelican with limited emergency services		Community Clinic at Hoonah with limited emergency services		Community Clinic at Gustavus with limited emergency services	
Natural Resources Considerations																	
Fish & Wildlife	Spawning salmon, seals, otters, seabird concentrations	Spawning salmon, seals, otters, seabird concentrations			Spawning salmon, seals, otters			Spawning salmon, seals, otters, seabird & waterfowl concentrations				Spawning salmon and herring, seals, otters, waterfowl concentrations		Spawning salmon, seals, otters, seabird concentrations		Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird & waterfowl concentrations
Threatened & Endangered Species	No listed species present in the immediate area. Stellers sea lion (threatened) feed throughout the area.																
Sensitive Areas	Not Designated			Area designated as sensitive by SE GRS Workgroup	Not Designated	Area designated as sensitive by SE GRS Workgroup	Not Designated	Area designated as sensitive by SE GRS Workgroup				Not Designated		Area designated as sensitive by SE GRS Workgroup		Not Designated	Area designated high priority by SE GRS Workgroup.
Other Stakeholder Considerations																	
Fisheries	Salmon, Groundfish, Crab																
Historic Properties	Historic properties are present throughout the area.																
Mariculture	None	Nearby in Port Althrop			None												
Subsistence	High level of subsistence use-salmon, intertidal	Lowlevel local subsistence use										High level of subsistence use-salmon, intertidal				Low level of subsistence use	
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, camping, excursion vessels and cruise ships																
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present. Tongass National Forest	Glacier Bay National Park-No public waterfront facilities			Tongass National Forest and Glacier Bay National Park-No waterfront facilities			Glacier Bay National Park-Public Small Boat Dock in Bartlett Cove				Municipality owned small boat harbor and supporting services are present. Tongass National Forest		Tongass National Forest-Small Boat facilities available in Hoonah		Tongass National Forest-No public waterfront facilities	Glacier Bay National Park Public Small Boat Dock in Bartlett Cove
Waterfront Private Facilities	Private docks and cargo services nearby	None present					Active Cannery Facility	Glacier Bay Lodge and Visitors Center				Private docks and cargo services nearby				Active cannery facility	Glacier Bay Lodge and Visitors Center
Response and Salvage Resource Consideration																	
Ability to Boom Vessel	Weather Dependent											Yes	Weather Dependent	Yes	Weather Dependent	Yes	Weather Dependent
Geographic Response Strategies	SE06-03	None (2009)		SE06-06,07	None (2009)	SE06-01	None (2009)	SE06-02	SE06-04,06,08	SE06-08,09	SE06-05	None (2009)		SE06-03		None (2009)	SE06-02
Closest Alternative Place of Refuge for same sized vessel	14 to D-06-05	9.5 to D-06-03	9.5 to D-06-02	9.5 to D-06-02	2.5 to D-06-06	2.5 to D-06-05	2.5 to D-06-05	10 to D-06-07	17 to D-06-08	11 to D-06-11	11 to D-06-10	1.5 to L-06-02	1.5 to L-06-01	2 to L-06-04	2 to L-06-03	18 to L-05-03	26 to L-06-03

Site ID Number and Vessel Size Classification

D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT

L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

Stakeholders for PPOR Zone 06 of the Southeast Alaska Subarea

Year-2009	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*
Alaska Department of Fish & Game	Resource Manager	City of Gustavus	Mayor	Glacier Bay National Park	Dept of the Interior-Regional Environmental Officer	Native Allotments	Dept of the Interior-Regional Environmental Officer
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer	City of Hoonah	President	Hoonah Indian Association (IRA)	Mayor	Sealaska Corporation	President
Central Council Tlingit-Haida Tribal	President	City of Pelican	Mayor	Huna Totem Corporation	President	Tongass National Forest	Forest Supervisor

Physical and Operational Characteristics for PPOR Map 06 of the Southeast Alaska Subarea

	Port Frederick Anchorage-Halibut Rock	Idaho Inlet	Taylor Bay	Dundas Bay	East Pleasant Island	West Pleasant Island	Excursion Inlet	Outer Bartlett Cove	Drake Island Anchorage	Composite Island	Russell Island	Pelican Ferry Terminal	Lisianski Inlet	Hoonah Ferry Terminal	Hoonah Moorage	Excursion Inlet Cannery Dock	Inner Bartlett Cove
ID Number	**D-06-01**	**D-06-02**	**D-06-03**	**D-06-04**	**D-06-05**	**D-06-06**	**D-06-07**	**D-06-08**	**D-06-09**	**D-06-10**	**D-06-11**	**L-06-01**	**L-06-02**	**L-06-03**	**L-06-04**	**L-06-05**	**L-06-06**
Location *(in the general area)*	58°07.88'N 135°30.39'W	58°12.51'N 136°11.48'W	58°17.45'N 136°32.70'W	58°20.36'N 136°20.31'W	58°21.50'N 135°31.59'W	58°21.56'N 135°47.09'W	58°22.45'N 135°27.24'W	58°26.42'N 135°55.70'W	58°39.27'N 136°11.52'W	58°53.79'N 136°35.14'W	58°57.28'N 136°52.66'W	57°57.46'N 136°13.65'W	57°58.72'N 136°15.01'W	58°06.99'N 135°27.38'W	58°06.16'N 135°28.14'W	58°24.97'N 135°26.82'W	58°27.13'N 135°54.97'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT											Light Draft Vessel - up to 450 feet in length, draft up to 20 feet					
Type of Berthing	Anchorage											Dock	Anchorage	Dock	Mooring	Dock	Anchorage
Contact	N/A											907.735.2212 Harbor Master	N/A	907.945.3292 Ferry Office	907.945.3670 Harbor Master	907.586.4244- Operations Mgr.	N/A
Navigational Approach	N from South Passage	N from South Passage	Approach from the S	Approach from the S	Approach from the SE	Approach from the S-W	Approach from the S	Approach from the W	Approach from the N-SE	Approach from the S	Approach from the SW	Approach from the NW	Approach from the NW	Approach from the W	Approach from the NW	Approach from the S	Approach from the W
Minimum Water Depths *(MLLW)*	13 fathoms	20 fathoms	32 Fathoms	12 Fathoms	23 Fathoms	31 Fathoms	14 Fathoms	21 fathoms	14 fathoms	24 fathoms	30 fathoms	20 ft.	20 fathoms	25 ft.	28 fathoms	25 ft.	28 fathoms
Maximum Vessel Draft	40 ft. +			40 ft.	40 ft. +		40 ft.	40 ft. +	40 ft.	40 ft. +	40 ft.	20 ft. (tidal dependent)	20 ft.				
Swing Room or Dock Face *(w/ dolphins)*	3600 ft.	3600 ft.	3000 ft.	3000 ft.	4200 ft.	6000 ft.	3000 ft.	3600 ft.	3600 ft.	2400 ft.	2000 ft.	185 ft.	1200 ft.	400 ft.	1200 ft.	130 ft.	2800 ft.
Bottom Type	Rocky	Mud	Shells	Mud, Rocky	Mud				Rocky	Mud, Sand	Mud	N/A	Gravel	N/A	N/A	N/A	Mud
Nearest Alternative Dock/Piers	65 nm to Juneau Docks	95 nm to dock in Sitka	97 nm to dock in Sitka	104 nm to dock in Sitka	75 nm to Juneau Docks	85 nm to Juneau Docks	88 nm to Juneau Docks	107 nm to Juneau Docks	120 nm to Juneau Docks	140 nm to Juneau Docks	150 nm to Juneau Docks	45 nm to L-06-03	1.5 nm to L-06-01	45 nm to L-06-01	1 nm to L-05-03	25 to L-05-03	27 nm to L-05-03
Nearest Alternative Anchorage	14 to D-06-05	9 nm to D-06-04	7 nm to D-06-04	9 nm to D-06-03	3 nm to D-06-07	13 nm to D-06-05	3 nm to D-06-05	10 nm to D-06-06	16 nm to D-06-08	11 nm to D-06-09	10 nm to D-06-10	1.5 to L-06-02	37 nm to L-06-06	1.5nm to L-06-04	16 to L-07-01	19 nm to D-06-04	25 to L-06-04
Prevailing Winds	Strongest winds are usually out of the N, E, and SE. May through September NW winds dominate. E and SE winds blow more than 50 percent of the time from October through February																
Currents	Cross Sound has currents up to 1.2 to 2 knts in the wide parts. Significantly more current in constricted areas.	Cross Sound has currents up to 1.2 to 2 knts in the wide parts. Significantly more current in constricted areas.			Light currents in the Strait. Minimal currents at the anchorages			Currents in the channel are significant.	Current has little velocity			Little current at dock face	Light current	Little current at dock face	Light current	Light current at dock face.	Currents in the channel are significant.
Tides	Mean High 9.6 ft. (Higher 10.4) Mean Low 1.5 (Lower -0.0)	Mean High 9.6 ft. (Higher 10.4) Mean Low 1.5 (Lower -0.0)			Mean High 13.5 ft. (Higher 14.5) Mean Low 1.5 (Lower 0.0)			Mean High 13.7 ft. (Higher 14.6) Mean Low 1.6(Lower -4.5)	Mean High 15.1ft. (Higher 16) Mean Low 1.7 (Lower -4.5)	Mean High 15.6ft. (Higher 16.5) Mean Low 1.7 (Lower -4.5)		Mean High 9.5 ft. (Higher 10.4) Mean Low 1.4 (Lower -4.0)	Mean High 9.5 ft. (Higher 10.4) Mean Low 1.4 (Lower -4.0)	Mean High 13.4 ft. (Higher 14.8) Mean Low 1.5 (Lower 0.0)	Mean High 13.4 ft. (Higher 14.8) Mean Low 1.5 (Lower 0.0)	Mean High 13.5 ft. (Higher 14.5) Mean Low 1.5 (Lower 0.0)	Mean High 13.7 ft. (Higher 14.6) Mean Low 1.6(Lower -4.5)
Sea Conditions	Exposed to swells from the N	Exposed to swells from the N	Exposed to swells from the S	Exposed to swells from the S	Exposed to swells from the S-W	Exposed to swells from the SE	Exposed to swells from the S	Exposed to swells from the SW	Exposed to swells from the N	Sheltered						Exposed to swells from S	Exposed to swells from W
Shelter from Severe Storms	Sheltered from E-W storms	Sheltered from E-W storms	Sheltered from W-E storms		Sheltered from W-E	Sheltered from N-S storms	Sheltered from W-E storms	Sheltered from N-S	Sheltered from E-W	Strong winds may funnel out of the inlets		Sheltered				Sheltered from N,E,W	Sheltered from N-S
Fog	Frequent throughout the year. Heaviest from June-July.																
Ice	Ice can form in bays from November until May if colder conditions prevail.																

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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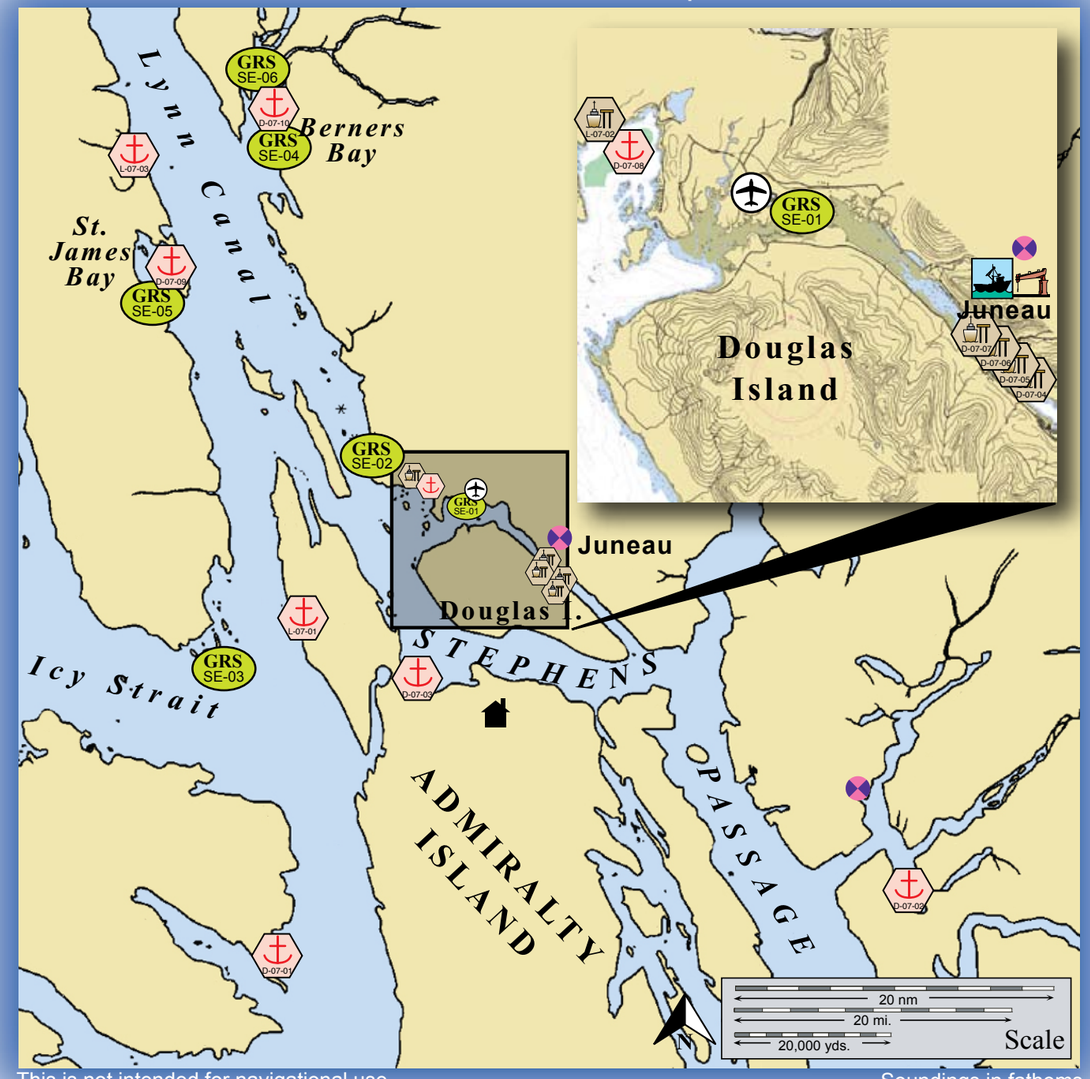
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 58˚ 21.27' N Lat., 134˚ 26.78' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea - Zone 7 Map Locator

Legend Map

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 07

USGS 1:969,756K Quadrangle Map Reference - Dixon Entrance to Cape St Elias - 16016_1

Site Information for Southeast Alaska PPOR Map 07

Site Considerations for PPOR Zone 07 of the Southeast Alaska Subarea

	Lyoukeen Cove	Gilbert Bay	Young Bay	AJ Dock	South Franklin Dock	Cruise Ship Terminal/ Steamship Wharf	USCG Dock	Auke Bay	St James Bay	Berners Bay	Funter Bay	Auke Bay Ferry Terminal	William Henry Bay
ID Number	**D-07-01**	**D-07-02**	**D-07-03**	**D-07-04**	**D-07-05**	**D-07-06**	**D-07-07**	**D-07-08**	**D-07-09**	**D-07-10**	**L-07-01**	**L-07-02**	**L-07-03**
Human Health and Safety													
Community-distance to (nm)	27 to Tenakee Springs	37 to Juneau	26 to Juneau	1 to Juneau	.5 to Juneau	.5 to Juneau	0 to Juneau	8 to Juneau (via road system)	53 to Juneau	58 to Juneau	21 to Hoonah	12 to Juneau (via road system)	59 to Juneau
Health Care Facilities	Community Clinic at Tenakee Springs with limited emergency services	Full hospital services at Juneau									Community Clinic at Hoonah with limited emergency services	Full hospital services at Juneau	
Natural Resources Considerations													
Fish & Wildlife	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird concentrations	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird and shorebird concentrations					Spawning salmon, seals, sea lions, otters	Spawning salmon and herring, seals, sea lions, otters, seabird and shorebird concentrations	Spawning salmon, seals, otters	Spawning salmon, seals, otters, seabird and shorebird concentrations	Spawning salmon, seals, sea lions, otters
Threatened & Endangered Species	No listed species present in the immediate area								Stellers sea lions (threatened) haul out nearby		No listed species present in the immediate area		Stellers sea lions (threatened) haul out nearby
Sensitive Areas	No designated areas			MESA-61 nearby. Area designated as sensitive by SE GRS Workgroup					Area designated as sensitive by SE GRS Workgroup.		No designated areas	MESA-61 nearby. Area designated as sensitive by SE GRS Workgroup	
Other Stakeholder Considerations													
Fisheries	Salmon, Groundfish, Crab												
Historic Properties	Historic properties are present throughout the area.												
Mariculture	None	Salmon Hatchery	None	Salmon Hatchery					None			Salmon Hatchery	None
Subsistence	Low level local subsistence		High level of subsistence use-salmon, intertidal										
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, excursion vessels, cruise ships, camping, hunting												
Waterfront Public Facilities/Parks	Tongass National Forest -No waterfront facilities		Tongass National Forest - Small recreational cabin in Admiralty Cove	Juneau Port and Harbor. Freight handling services, cranes, boat launch, tidal grid. Tongass National Forest					Tongass National Forest -No waterfront facilities			Juneau port and harbor. Freight handling services, cranes, boat launch, tidal grid. Tongass National Forest.	Tongass National Forest -No waterfront facilities
Waterfront Private Facilities	None present		Small private dock	Numerous private docks and cargo handling capabilities.					None present			Numerous private docks and cargo handling capabilities.	None present
Response and Salvage Resource Consideration													
Ability to Boom Vessel	Weather Dependent			Yes				Weather Dependent				Yes	Weather Dependent
Geographic Response Strategies	None (2009)			SE07-01				SE07-01,02	SE07-05	SE07-04,06	SE07-03	SE07-01,02	None (2009)
Closest Alternative Place of Refuge for same sized vessel	30 to D-06-01	25 to D-03-04	24 to D-07-04	.25 to D-07-05	.25 to D-07-04	.25 to D-07-05	.3 to D-07-06	10 to D-07-03	12 to D-07-10	12 to D-07-09	23 to L-06-02	1 to D-07-08	14 to L-08-01

Site ID Number and Vessel Size Classification

D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

Stakeholders for PPOR Zone 07 of the Southeast Alaska Subarea

Year-2009	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*
Alaska Department of Fish & Game	Resource Manager	Central Council Tlingit-Haida Tribal	President	Haines Borough	Mayor	Sealaska Corporation	President
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer	City and Borough of Juneau	Mayor	Native Allotments	Dept of the Interior-Regional Environmental Officer	Tongass National Forest	Forest Supervisor

Physical and Operational Characteristics for PPOR Map 07 of the Southeast Alaska Subarea

	Lyoukeen Cove	Gilbert Bay	Young Bay	AJ Dock	South Franklin Dock	Cruise Ship Terminal/ Steamship Wharf	USCG Dock	Auke Bay	St James Bay	Berners Bay	Funter Bay	Auke Bay Ferry Terminal	William Henry Bay
ID Number	**D-07-01**	**D-07-02**	**D-07-03**	**D-07-04**	**D-07-05**	**D-07-06**	**D-07-07**	**D-07-08**	**D-07-09**	**D-07-10**	**L-07-01**	**L-07-02**	**L-07-03**
Location *(in the general area)*	57°53.03'N 134°57.71'W	57°57.22'N 133°42.19'W	58°10.61'N 134°40.80'W	58°17.38'N 134°23.87'W	58°17.46'N 134°23.64'W	58°17.82'N 134°24.24'W	58°17.88'N 134°24.72'W	58°22.19'N 134°40.04'W	58°36.09'N 135°10.09'W	58°46.00'N 134°57.20'W	58°14.34'N 134°54.58'W	58°22.86'N 134°41.10'W	58°43.11'N 135°14.25'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT										Light Draft Vessel - up to 450 feet in length, draft up to 20 feet		
Type of Berthing	Anchorage			Dock				Anchorage				Dock	Anchorage
Contact	N/A			Port Manager 907.586.1282	Operations Director 907.463.3900	Port Director 907.586.0292	Duty Officer 907.463.2248	N/A				907.465.3941	N/A
Navigational Approach	Approach from the E	Approach from the N	Approach from the N-E	Approach using marked channel from the SE				Approach from the SW	Approach from the S	Approach from the SW	Approach from the W	Approach from the SW	Approach from the NE
Minimum Water Depths *(MLLW)*	24 Fathoms	30 Fathoms	22 Fathoms	34 ft.	30 ft.	27-35 ft.	36 ft.	29 Fathoms	10 Fathoms	27 Fathoms	27 Fathoms	26 ft.	13 Fathoms
Maximum Vessel Draft	40 ft.	40 ft.	40 ft.	30 ft.	30 ft. (Tidal Dependent)	27 ft. (Tidal Dependent)	35 ft.	40 ft.	40 ft.	40 ft.	20 ft.	20 ft.	20 ft.
Swing Room or Dock Face *(w/ dolphins)*	3600 ft.	2800 ft.	3000 ft.	380 ft. (1100ft.)	960 ft.	1700 ft.	760 ft.	3600 ft.	2400 ft.	3000 ft.	1500 ft.	850 ft.	900 ft.
Bottom Type	Sand	Mud	Mud, Gravel	N/A				Mud	Mud, Pebbles	Mud	Shells, Pebble	N/A	Sand
Nearest Alternative Dock/Piers	73 nm to Port of Juneau	36 nm to D-07-04	25 nm to D-07-04	.25 nm to D-07-05	.25 nm to D-07-04	.25 nm to D-07-05	.3 nm to D-07-06	30 nm to D-07-04	48 nm to D-07-04	38 nm to D-08-01	49 nm to D-07-04	31 nm to D-07-04	30 nm to L-07-02
Nearest Alternative Anchorage	35 nm to D-06-01	25 nm to D-03-04-Holkham Bay	12 nm to D-07-09	22 nm to D-07-03	22.25 nm to D-07-03	22.5 nm to D-07-03	23 nm to D-07-03	10 nm to D-07-03	12 nm to D-07-10	12 nm to D-07-09	23 nm to L-06-02	1 nm to D-07-09	14 nm to L-08-01
Prevailing Winds	SE Winds prevail year round. SE gales may occur at any season, but they are much more frequent in winter than in summer.												
Currents	Minimal currents at anchorage	Significant currents at entrance to the bay	Minimal currents at anchorage	Mid-channel currents to 2 knts. Less current in wharves.				Minimal currents at anchorage				Minimal current at dock face	Minimal currents at anchorage
Tides	N/A	Mean High 14.9 ft. (Higher 15.8) Mean Low 1.5 (Lower -5.5)	Mean High 14.2 ft. (Higher 15.0) Mean Low 1.3 (Lower -6.0)	Mean High 15.3 ft. (Higher 16.3) Mean Low 1.6 (Lower 0.0)				Mean High 15.0 ft. (Higher 15.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.6(Lower -6.0)		Mean High 14.2 ft. (Higher 15.1) Mean Low 1.6 (Lower -6.0)	Mean High 15.0 ft. (Higher 15.9) Mean Low 1.5 (Lower 0.0)	Mean High 14.8 ft. (Higher 15.7) Mean Low 1.6 (Lower -6.0)
Sea Conditions	Exposed to swells from the E	Exposed to swells from the N	Exposed to swells from the N	Sheltered				Exposed to swells from the S	Exposed to swells from the S	Exposed to swells from the SW	Exposed to swells from the W	Sheltered	Exposed to swell from the NE
Shelter from Severe Storms	Sheltered from S-N storms	Sheltered from W-E storms	Exposed to storms from the NW					Sheltered from W-E storms	Sheltered from W-SE	Sheltered from W-S	Sheltered from NW-SE		Sheltered from E-N
Fog	Frequent throughout the year. Heaviest from June-July.												
Ice	Generally ice free.												

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm

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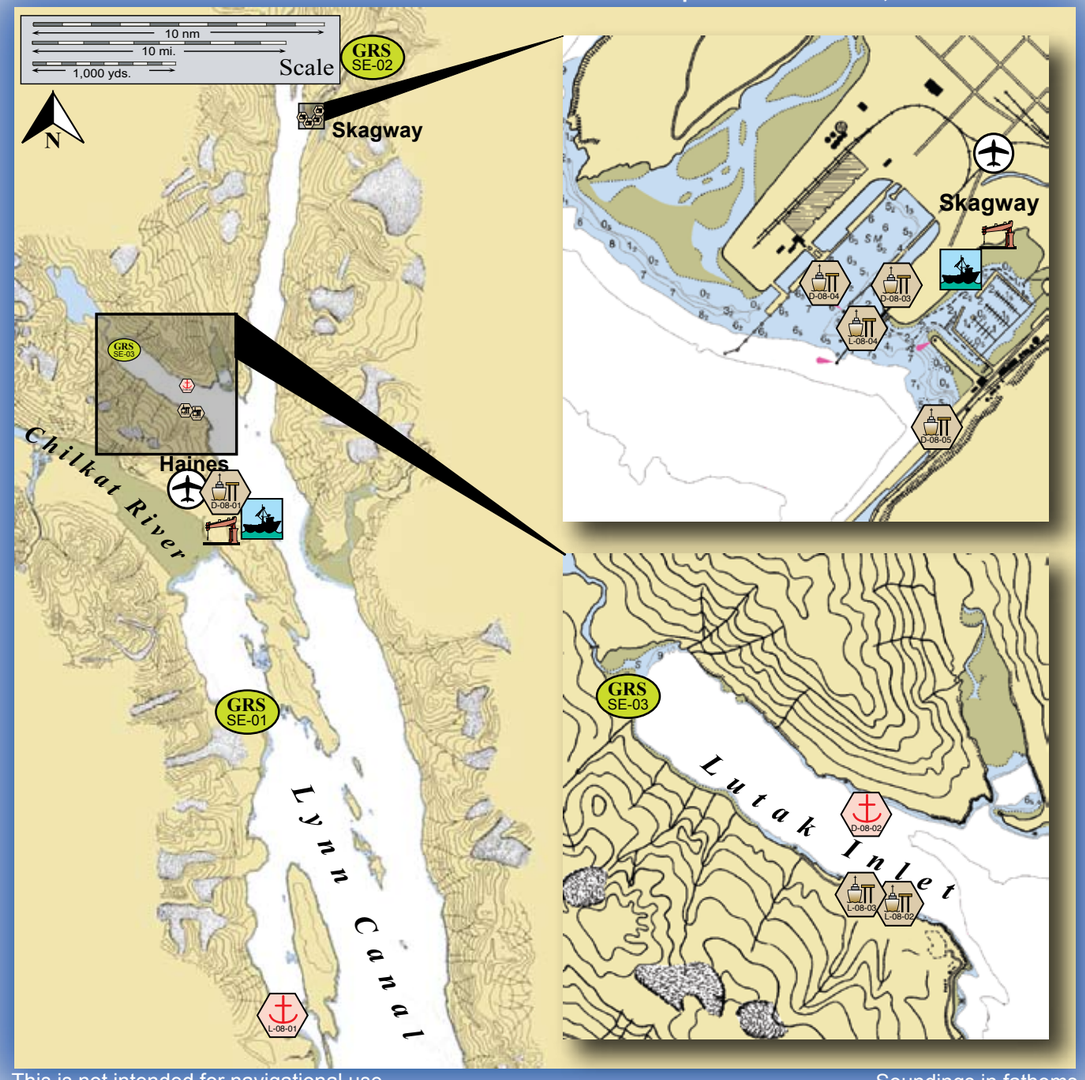
Potential Places of Refuge *for Southeast Alaska Subarea*

Center of map at 59˚ 12.41' N Lat., 135˚ 03.80' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea - Zone 8 Map Locator

Map Legend

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR Map 08

USGS 1:77,812K Quadrangle
Map Reference - Lynn Canal Point Sherman to Skagway - 17317_1

Site Information for Southeast Alaska PPOR Map 08

Site Considerations for PPOR Zone 08 of the Southeast Alaska Subarea

	Port Chilkoot Wharf	Lutak Inlet Anchorage	Broadway Dock	Ore Dock	Railroad Dock	Sullivan Island	Haines Ferry Terminal/Lutak Dock	Haines Municipal Dock	Skagway Ferry and Barge Terminal
ID Number	**D-08-01**	**D-08-02**	**D-08-03**	**D-08-04**	**D-08-05**	**L-08-01**	**L-08-02**	**L-08-03**	**L-08-04**
Human Health & Safety									
Community-distance to (nm)	0 to Haines	6 to Haines	0 to Skagway	0 to Skagway	0 to Skagway	21 to Haines	3 to Haines	3 to Haines	0 to Skagway
Health Care Facilities	Community Clinics in Haines and Skagway with emergency services								
Natural Resources Considerations									
Fish & Wildlife	Spawning salmon, seal, otters, eagle nesting								
Threatened & Endangered Species	No listed species present in the immediate area. Stellers sea lion (threatened) feed throughout the area.								
Sensitive Areas	MESA-60 nearby. Area designated as sensitive by SE GRS Workgroup.		Area designated as sensitive by SE GRS Workgroup.			No designation	MESA-60 nearby. Area designated as sensitive by SE GRS Workgroup.		Area designated as sensitive by SE GRS Workgroup.
Other Stakeholder Considerations									
Fisheries	Salmon, Groundfish, Crab								
Historic Properties	Historic properties are present throughout the area.								
Mariculture	None	Salmon Hatchery	None				Salmon Hatchery		None
Subsistence	No	Low level local subsistence	No			Low level local subsistence			No
Tourism/Recreation	High Recreational Use-Sport fishing, wildlife viewing, camping, excursion vessels and cruise ships								
Waterfront Public Facilities/Parks	Municipality owned small boat harbor and supporting services are present in Haines. Tongass National Forest.		Municipality owned small boat harbor and supporting services are present in Skagway. Tongass National Forest .			Tongass National Forest -No waterfront facilities	Municipality owned small boat harbor and supporting services are present in Haines. Tongass National Forest.		Municipality owned small boat harbor and supporting services are present in Skagway. Tongass National Forest.
Waterfront Private Facilities	Numerous small docks and piers in the Haines area. Cranes and freight handling capabilities present.		Numerous small docks and piers in the Skagway area. Cranes and freight handling capabilities present.			None Present	Numerous small docks and piers in the Haines area. Cranes and freight handling capabilities present.		Numerous small docks and piers in the Skagway area. Cranes and freight handling capabilities present.
Response and Salvage Resource Consideration									
Ability to Boom Vessel	Yes	Weather Dependent	Yes			Weather Dependent	Yes		
Geographic Response Strategies	None (2009)	SE08-03	SE08-02			None (2009)	SE08-03		SE08-02
Closest Alternative Place of Refuge for same sized vessel	3.5 to D-08-02	3.5 to D-08-01	.1 to D-08-04	.1 to D-08-03	.1 to D-08-04	26 to L-08-03	.1 to L-08-03	.1 to L-08-02	.1 to D-08-03

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

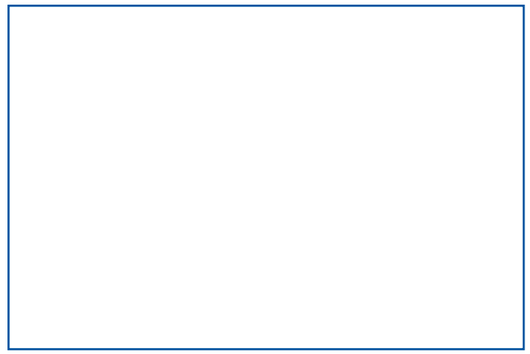
Stakeholders for PPOR Zone 08 of the Southeast Alaska Subarea

Year-2009	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*	*Year-2009*	*Contact*
Alaska Department of Fish & Game	Resource Manager	Chilkoot Indian Association (IRA)	President	Municipality of Skagway	Mayor	Skaqua Traditional Council	Tribal Chair
Alaska Department of Natural Resources	Resource Manager, State Historic Preservation Officer	City of Haines	Mayor	Native Allotments	Dept of the Interior-Regional Environmental Officer	Tongass National Forest	Forest Supervisor
Central Council Tlingit-Haida Tribal	President	Haines Borough	Mayor	Sealaska Corporation	President		

Physical and Operational Characteristics for PPOR Map 08 of the Southeast Alaska Subarea

	Port Chilkoot Wharf	Lutak Inlet Anchorage	Broadway Dock	Ore Dock	Railroad Dock	Sullivan Island	Haines Ferry Terminal/Lutak Dock	Haines Municipal Dock	Skagway Ferry and Barge Terminal
ID Number	**D-08-01**	**D-08-02**	**D-08-03**	**D-08-04**	**D-08-05**	**L-08-01**	**L-08-02**	**L-08-03**	**L-08-04**
Location *(In the general area)*	59°14.04'N 135°26.34'W	59°17.70'N 135°28.50'W	59°27.02'N 135°19.46'W	59°27.01'N 135°19.62'W	59°26.77'N 135°19.47'W	58°55.86'N 135°21.50'W	59°16.94'N 135°27.83'W	59°17.19'N 135°28.72'W	59°26.94'N 135°19.56'W
Maximum Vessel Size	Deep Draft Vessels- lengths to 1000 feet or greater, 20-40 feet of draft, greater than 10,000 GT					Light Draft Vessel - up to 450 feet in length, draft up to 20 feet			
Type of Berthing	Dock	Anchorage	Dock			Anchorage	Dock		
Contact	Harbormaster 907.766.2448	N/A	Operations Manager 907.983.2214			N/A	Terminal Operations 907.766.2111	Harbormaster 907.766.2448	Harbormaster 907.983.2628
Navigational Approach	Approach from the E	Approach from the SE	Approach from the SW			Approach from the SE or NW	Approach from the S		Approach from the SW
Minimum Water Depths *(MLLW)*	40 Feet	41 Fathoms	35 Feet	45-90 Feet	24-43 Feet	19 Fathoms	23 Feet	12-23 Feet	25 Feet
Maximum Vessel Draft	35 ft.	40 ft.	30 ft.	40 ft.	40 ft.	20 ft.	20 ft.	20 ft.	20 ft.
Swing Room or Dock Face *(w/ dolphins)*	915 ft.	2400 ft.	800 ft.	1000 ft.	1850 ft.	2000 ft.	640 ft.	750 ft.	385 ft.
Bottom Type	N/A	Mud	N/A			Mud	N/A		
Nearest Alternative Dock/Piers	13.5 nm to D-08-03	5 nm to D-08-01	.1 nm to D-08-04	.1 nm to D-08-03	.15 nm to D-08-03	23 nm to L-08-02	.25 nm to L-08-03	.25 nm to L-08-02	.1 nm to D-08-03
Nearest Alternative Anchorage	5 nm to D-08-02	44 nm to D-07-08	12.5 nm to D-08-02	12.5 nm to D-08-02	12.5 nm to D-08-02	16 nm to D-08-02	2 nm to D-08-02	2 nm to D-08-02	14.5 nm to D-08-02
Prevailing Winds	SE winds prevail year round. SE gales may occur at any season, but they are much more frequent in winter than in summer. High shores funnel and intensify the SE winds.								
Currents	Currents in Lynn Canal have a velocity of 0.3 to 1 knot in the S part, diminishing in velocity toward the head.								
Tides	Mean High 15.8 ft. (Higher 16.8) Mean Low 0.0 (Lower -6.0)		Mean High 15.7 ft. (Higher 16.7) Mean Low 1.6 (Lower 0.0)			Mean High 15.8 ft. (Higher 16.8) Mean Low 0.0 (Lower -6.0)			Mean High 15.7 ft. (Higher 16.7) Mean Low 1.6 (Lower 0.0)
Sea Conditions	Sheltered					Exposed to swells from the N	Sheltered		
Shelter from Severe Storms	Sheltered from severe storms					Sheltered from NE-NW storms	Sheltered from severe storms		
Fog	Frequent throughout the year. Heaviest from June-July.								
Ice	Generally ice free.								

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm



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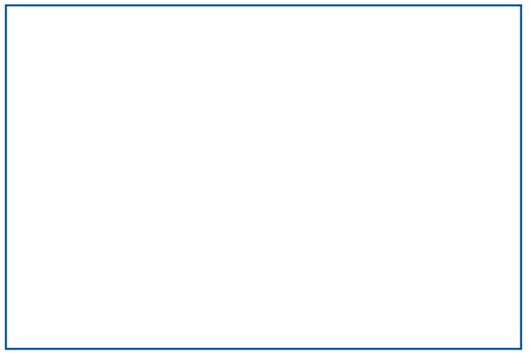

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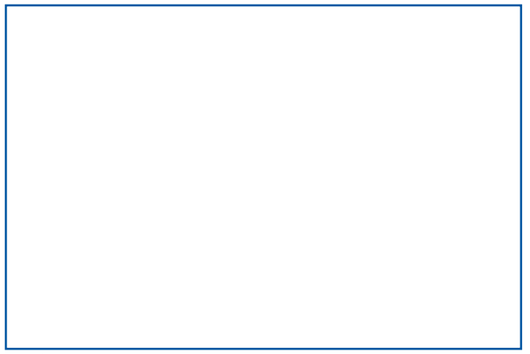

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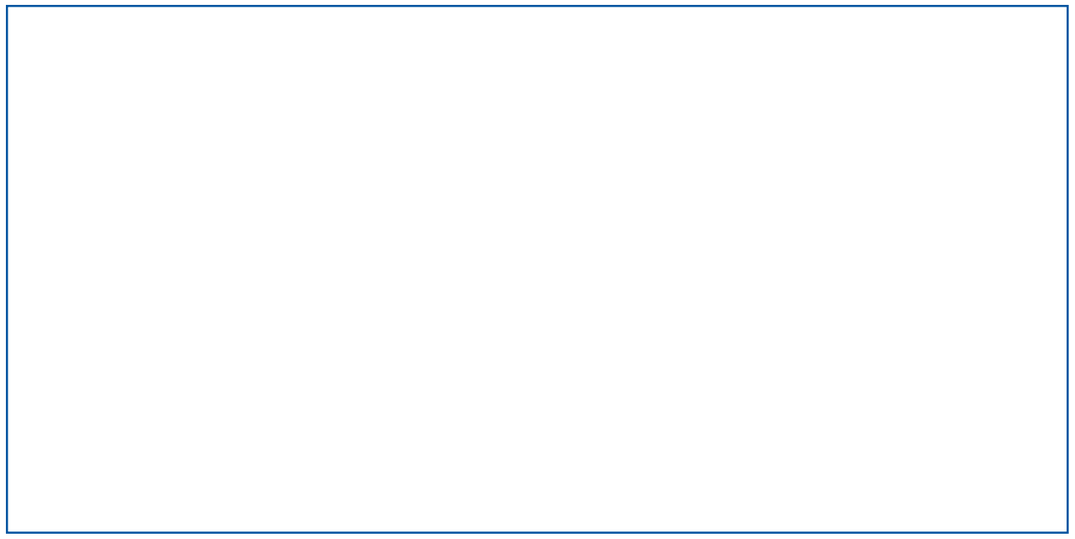

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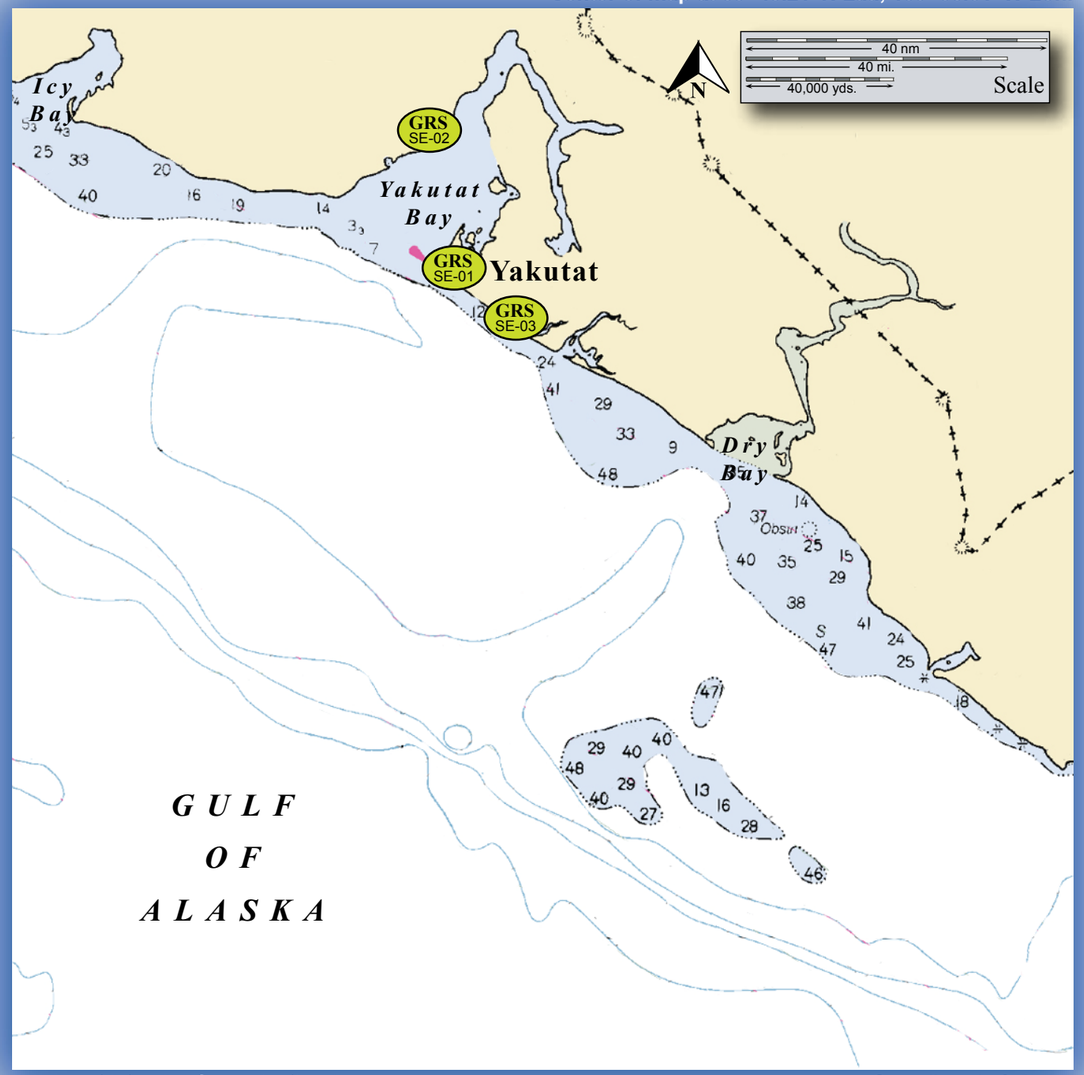
Potential Places of Refuge *for Southeast Alaska Subarea*

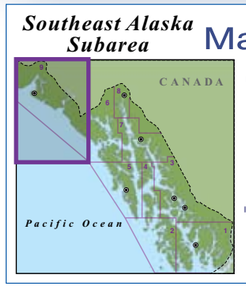
Center of map at 58˚ 48.21' N Lat., 139˚ 38.61' W Lon.



This is not intended for navigational use.

Soundings in fathoms

Southeast Alaska Subarea Map Locator



Map Legend

- Anchorage
- Mooring
- Dock/pier
- Crane
- Airport
- Existing GRS
- Fish Hatchery
- Private Cabins
- Public Use Cabins
- Boat Harbor

Southeast PPOR

Map 09

USGS 1:22,100,00K Quadrangle
Map Reference - Southeast Alaska REG30

Site Information for *Southeast Alaska PPOR Map 09*

Site ID Number and Vessel Size Classification
D = Deep Draft Vessel-lengths to 1,000 ft or greater, 20-40 ft of draft, greater than 10,000 GT
L = Light Draft Vessel-up to 450 feet in length, draft up to 20 ft

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Southeast Alaska Subarea Contingency Plan: http://www.dec.state.ak.us/spar/perp/plans/scp_se.htm